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SITE INSPECTION **REPORT**

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Simmons Casket Company Lancaster, Garrard County, Kentucky EPA ID № KYD050074889 WasteLAN № 01994

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Prepared by **B&V Waste Science and Technology Corp** BVWST Project № 52011.020

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FINAL Site Inspection Report SIMMONS CASKET COMPANY

Lancaster, Garrard County, Kentucky

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EXECUTIVE SUMMARY

The Simmons Casket Company facility was a casket manufacturer from 1965 to 1984 and was operated by three different casket companies. The 49 acre facility is located 0.4 mile south of Lancaster in Garrard County, Kentucky. Since 1987, Allison Abrasives, Inc. has been the occupant of the facility manufacturing abrasive wheels.

The site consists of a 100,000 square foot manufacturing plant, a large warehouse, a waste compactor, a dust collection system, a concrete drum storage pad, and a large mound of soil, wood and concrete debris. The area around the southeast portion of the property is where hazardous waste handling occurred. This area contains the drum storage pad in addition to areas of stained soil and vegetative stress.

Ten environmental samples were collected at the Simmons Casket Company facility. Analytical data obtained from the Contract Laboratory Program indicates an area of contaminated soil. The analytical results imply that most of the contamination found in surficial soils and sediment samples are attributable to past activities and operations of casket manufacturing. Contaminants include: phenol, benzyl butyl phthalate, PCB-1260, and copper.

The Simmons Casket Company is located in the Nonglaciated Central Groundwater Region as well as Kentucky's Blue Grass Physiographic Province. Formations beneath the site are predominately limestone, however, karst topography is not a concern in this area. The groundwater pathway is not a concern due to the poor quality of the local groundwater, i.e., high salinity and high hydrogen sulfide concentrations. Three municipal water systems which obtain their water supply from a surface water intake in the Kentucky River serve the area, otherwise, residents use cisterns for potable water.

The surface water pathway is of minimal concern. The only surface water intake utilized is not within the 15-mile pathway, and the only targets of importance are recreational swimming, fishing, and two threatened aquatic species.

The air and soil pathways are of small concern due to the small target population of the Lancaster area.

Based on the analysis of possible migration pathways, the results of the sampling investigation, and the information obtained from reference material, it is recommended that no further remedial action be planned for Simmons Casket Company.

ms/CJH October 12, 1992 A:\52011\020\SIMMONS.SI

FINAL Site Inspection Report SIMMONS CASKET COMPANY

Lancaster, Garrard County, Kentucky

EPA ID Nº KYD050074889 WasteLAN Nº 01994

1.0 Introduction

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the U. S. Environmental Protection Agency (EPA), Waste Management Division, Region IV conducted a site inspection (SI) at the Simmons Casket Company in Garrard County, Kentucky. The purpose of this investigation was to collect information concerning conditions at the site sufficient to assess the threat posed to human health and the environment and to determine the need for additional investigation under CERCLA/SARA or other authority. This investigation included reviewing previous file information, sampling of waste and environmental media to test preliminary assessment (PA) hypotheses and document HRS factor values and scores, collecting additional non-sampling information, and interviewing nearby residents.

The objectives of this inspection were to determine the nature of contaminants present at the site and to determine if a release of these substances has occurred or may occur. Further, this inspection sought to determine the possible pathways by which contamination could migrate from the site and the populations and environments it would potentially affect. Through these objectives, a recommendation was made regarding future activities at the site.

The completion of specific tasks concerning the Simmons Casket Company site had helped achieve the objectives of the site inspection. One task included obtaining and reviewing relevant background materials. These materials originated from the State of Kentucky's, Division of Waste Management, U.S. EPA files, and documents provided by the Plant Manager of Allison Abrasives (current facility occupant), Lynn Osborne. Information on the local water systems were obtained during the site visit. Such factors as: water source, number of connections per system, and water line distribution were also documented. A local well survey was completed to determine the location and distance to the nearest well. Potentially affected populations and

environments associated with the groundwater, surface water, air and soil pathways were evaluated. An accurate site sketch was completed as well as the collection of environmental samples.

2.0 Site Description

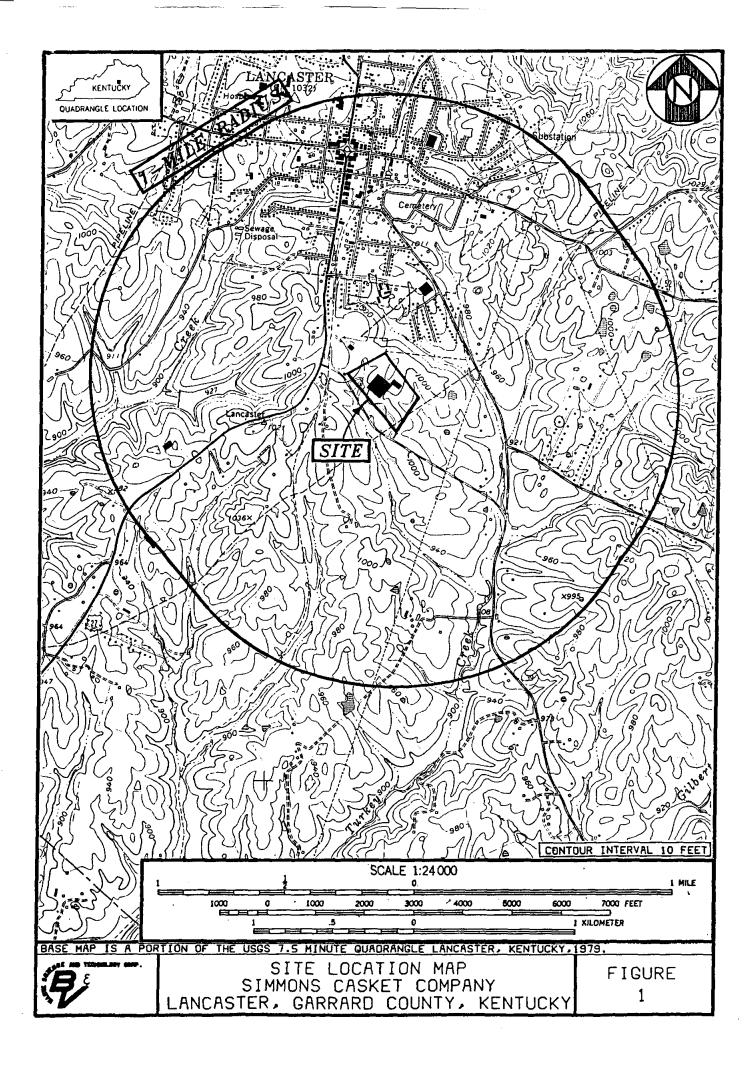
2.1 Location

The Simmons Casket facility is located at 163 Industry Road (Highway 29 South) approximately 0.7 miles south of Lancaster, the county seat of Garrard County. The geographic coordinates of the facility are 37° 36′ 21″ N latitude and 84° 34′ 35″ W longitude (Appendix A). The facility is situated in rural central Kentucky, 11 miles east of Danville, Kentucky (Appendix A). The site location is presented in Figure 1. Climate in the area is variable with cold, dry, windy winters and hot, humid, sultry summers. Precipitation is moderate to high during all seasons (Ref. 1). The mean annual precipitation is 48 inches, and the mean annual lake pan evaporation is 35 inches, resulting in a net annual rainfall of 13 inches (Ref. 2, pp. 43, 63). The 2-year, 24-hour rainfall is 3.0 inches (Ref. 3, p. 95). Typical elevations within the four mile radius area are 780 feet to 1100 feet above mean sea level (amsl) whereas, Simmons Casket Company lies between 980 to 1020 feet amsl (Appendix A).

2.2 Site Description

The total area of the site property is approximately 49 acres, of which the factory itself contains 100,000 square feet (Ref. 4). The facility began casket manufacturing in 1965 and continued until 1984. The site was inactive for 2 years, then in the fall of 1987, Allison Abrasives, Inc. began abrasive wheel manufacturing which is the current activity at the plant (Ref. 5). Directly across from the facility, on the south side of Industry Road (Highway 29 South), lies the Garrard County Fire District, Station Nº 1; otherwise neighbors of the facility are private homes or farms. The site is located in a rural area with some small shops and restaurants located 1.0 mile north in the downtown Lancaster area (Ref. 4, Appendix A).

The manufacturing plant (which encompasses approximately 2 acres) is surrounded by an employee parking area along the southwest edge. Truck loading docks and driveways occupy the northeast edge of the main building. To the north stands a water tower which is only used for onsite fire prevention (Ref. 4). An empty, locked warehouse exists on the east corner of site property. Hazardous waste handling and



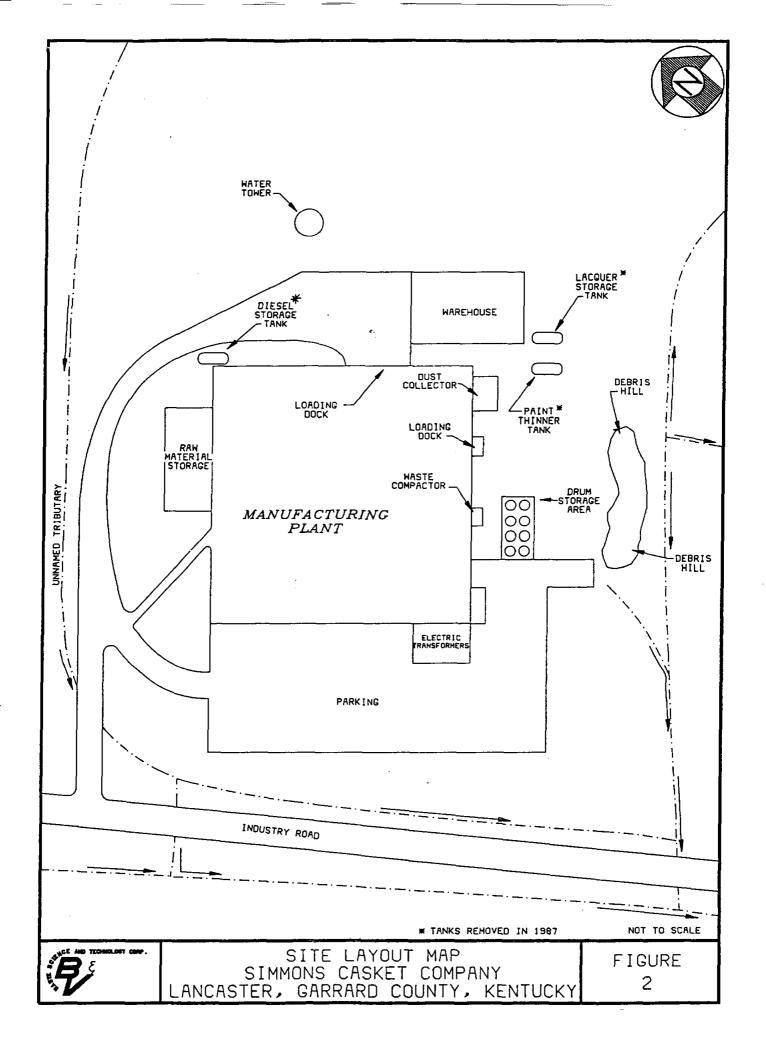
storage occurred along the southeast edge of the factory during the 15 years of casket manufacturing. Allison Abrasives also uses the southeast area for some waste handling and transporting. A Kentucky Department of Waste Management Trip Report (October 1989) cites stained soil and leaking drums and the BVWST site inspection during which circular rings of debris were observed on the concrete drum pad; obvious signs of recent drum removal (Refs, 4, 6). Some of the areas of interest along the southeast portion of the facility include: a large dust collection system, an old loading dock, a waste compactor, a 25 x 50 foot concrete drum storage pad, a large mound of soil, concrete and wood debris, and a few areas of stained soil (Ref. 4). Vegetative stress has also been observed in areas within the southeastern portion of the facility's property (Ref. 4). The site layout is illustrated on Figure 2.

The property surrounding Allison Abrasives, Inc. is not fenced or guarded allowing easy access to the employees as well as the public (Ref. 4).

2.3 Operational History and Waste Characteristics

In 1965, casket production was initiated by the National Casket Company, a division of Walco National Corporation (Ref. 5). In the fall of 1980, Simmons Casket Company, which is a division of G&W Casket Company (Gulf and Western Company), took over operations. After two years of manufacturing, York Casket Company continued operations from the fall of 1982 until late 1984. The plant was purchased by Allison Abrasives, Inc. in 1986 (Refs. 4, 5). In August 1987, Allison Abrasives removed three underground storage tanks at the facility. This tank removal was part of the restoration that occurred between 1986 and October 1987, which marks the beginning of abrasive wheel production for the facility's current occupant (Ref. 4). The casket companies used the underground storage tanks for diesel fuel, paint thinner, and lacquer (Ref. 4, 5).

The manufacturing process that was utilized by the casket companies consisted of welding/constructing of casket "shells," 3 stages of washing, and finally, painting and lacquering of the caskets (Ref. 5). A couple of vats were used inside for paint stripping and varnishing. These vats were refilled with products from the underground storage tanks (Refs. 4, 5). Paint sludges were the major by-product from the manufacturing operation; other wastes include paper, wood and solvents (Ref. 7). Paint sludges were compacted with non-hazardous wastes and hauled off-site to the county landfill (Ref. 7). Toluene was also hauled off-site but by a proper hazardous waste transporter and disposer (Ref. 8). In late 1979, the paint sludge required



analysis before deposition into the county landfill to satisfy Kentucky Division of Hazardous Material and Waste Management (KHDM) requirements. Initial analysis indicated high lead concentrations which prompted KDHM to withdraw permission to use the county landfill (Ref. 9). After a month of debate and more analyses, the KDHM granted permission to use the landfill for their paint sludges contingent upon quarterly leach tests to monitor lead concentrations (Ref. 10).

In May of 1981, Simmons Casket Company filed EPA documentation for "Notification of Hazardous Waste Site" which clearly defined their manufacturing waste byproducts as paint thinner waste and paint sludges (Ref. 11). In May of 1982, Simmons Casket was inspected by KDHM and several non-compliances were noted such as no drum labels, no weekly log, no facility contingency plan, and 1,1,1-trichloroethane present onsite but not registered (Ref. 12).

On September 23, 1982, the U. S. Environmental Protection Agency withdrew Simmon's RCRA Part A application and terminated their interim status as a storage facility- providing they remove their hazardous waste within a 90 day time limit (Ref. 13). During a March 1983 inspection, the KDHM cited the York Casket Company for wastes that had been stored for more than 90 days (Ref. 14). York Casket Company's solvent wastes were properly transported to Reclaimed Energy, Inc. in Connersville, Indiana, and their paint sludge was disposed of in the permitted county landfill (Ref. 15). After York Casket closed, full drums remained on site property. KDHM pursued York's parent company, Halmark Casket Company until proper disposal was implemented. In July, 1985, the generator status of the site was "closed" (Ref. 16).

In March 1989, Allison Abrasives applied to KDHM to accept an additional waste stream (cured abrasive grain dust from dust collectors) with an annual production rate of 1500 cubic yards (Ref. 17). In October 1989, the KDHM completed a preliminary assessment site visit during which leaking drums and stained soil were discovered along the east side of the building (Ref. 6). A KDHM preliminary assessment was completed in October 1990 in which the state recommended a high priority Site Investigation (Ref. 5).

3.0 Field Investigation

3.1 Sample Collection

During the field investigation, conducted the week of February 25, 1992, B&V Waste Science and Technology Corp. Attempted to identify and characterize contaminants which may be present in the environment as a result of activities that were conducted at the Simmons Casket Company. To accomplish this, BVWST collected environmental sediment and surface soil samples from a number of strategic locations. These locations were selected based on historical information, hydrogeological data for the region and site area, and direct observation at the site.

3.1.1 Sample Collection Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this inspection were in accordance with the standard operating procedures as specified in Section 3 and 4 of the Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual, United States Environmental Protection Agency, Region IV, Environmental Services Division, February 1, 1991, and with the Field Study Plan prepared by BVWST February 13, 1991; deviations from the study plan include the following:

- 1. No subsurface soil or temporary well samples were collected due to auger refusal at 4 feet below land surface (bls).
- 2. Background soil samples were moved to the northwestern corner of the site. This portion of site property is located at a higher elevation and appeared to be upgradient from other sample stations.
- 3. Surface soil samples were moved to different locations based on field observations.
- 4. Two sediment samples were added to help delineate potential overland contaminant migration across the eastern portion of site property.

3.1.2 Duplicate Samples

Duplicate samples were offered to and accepted by Mohammad Mohammadi of GeoSciences, Inc., designated consultant for Allison Abrasives (current owner of the Simmons Casket Property). Receipt for sample forms are on file at BVWST.

3.1.3 Description of Samples and Sample Locations

During the sampling investigation, a total of 10 environmental samples were collected. All sample locations are shown in Figure 3. Samples were collected from surface soils and from sediment in obvious drainage areas around the site. Sample codes, descriptions, locations, and rationale are contained in Table 1.

3.1.4 Field Measurements

No field measurements were performed on the soil samples collected during this investigation.

3.2 Sample Analysis

3.2.1 Analytical Support and Methodology

All samples collected were analyzed under the Contract Laboratory Program (CLP) and analyzed for all parameters listed in Target Compound List (TCL), and the Target Analyte List (TAL). Organic analysis of soil and sediment samples was performed by Ecotek Laboratory Services of Atlanta, Georgia. Inorganic analysis of soil and sediment samples was performed by Skinner Labs of Walton, Massachusetts.

All laboratory analyses and laboratory quality assurance procedures used during the investigation were in accordance with standard procedures and protocols as specified in the <u>Laboratory Operations and Quality Control Manual</u>, United States Environmental Protection Agency standard procedures and protocols for the Contract Laboratory Program (CLP) Statement of Work (SOW), as applicable.

3.2.2 Analytical Data Quality and Data Qualifiers

All analytical data were subjected to a quality assurance review as described in the EPA Environmental Services Division laboratory data evaluation guidelines. In the tables, some of the concentrations of the organic and inorganic parameters have been qualified with a "J". This indicates that the qualitative analysis was acceptable, but the quantitative value has been estimated. A few other compounds are qualified with an "N", indicating that they were detected based only on the presumptive evidence of their presence. This means that the compound was tentatively identified, and its detection cannot be used as a positive indication of its presence. Results for some background samples are reported with a "U" qualifier. This qualifier means that the material was analyzed for but not detected. The reported number is the laboratory-derived minimum quantitation limit (MQL) for the compound or element in that

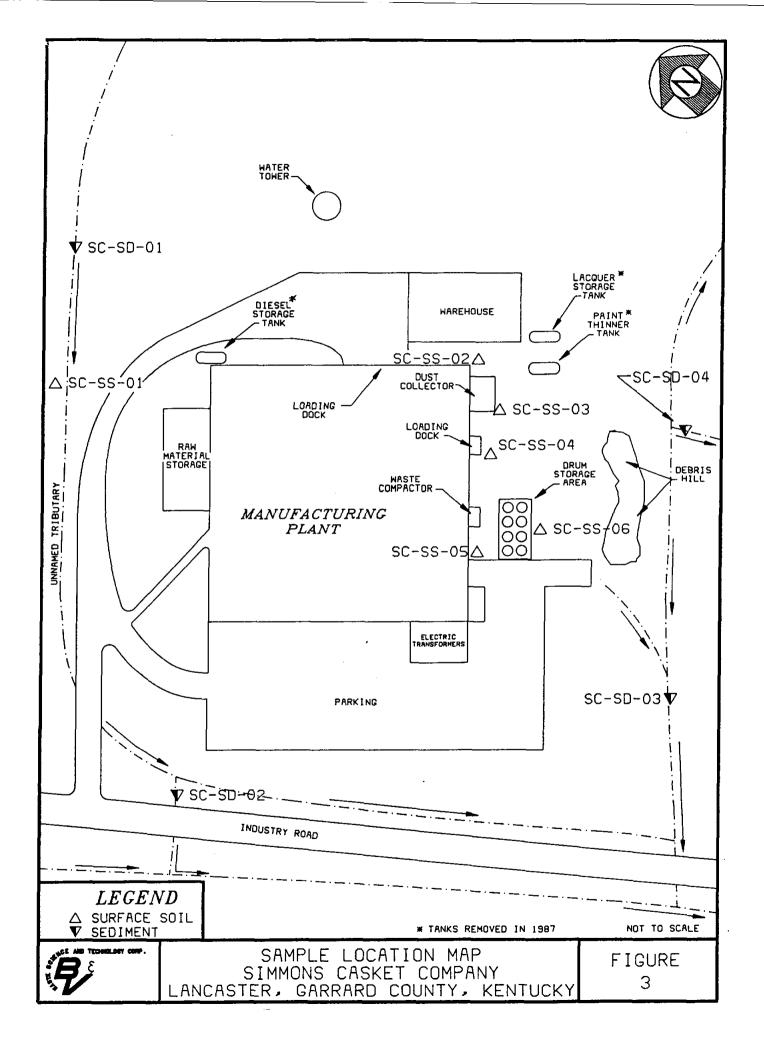


Table 1 Sample Locations and Rationale Simmons Casket Company Lancaster, Garrard County, Kentucky

| Sample Code | Sample Type | Location | Depth | Rationale |
|-------------|--------------|--|---------|---|
| SC-SS-01 | Surface Soil | North corner of property | 6 ln. | To establish background levels. |
| SC-SS-02 | Surface Soil | East corner of building | 4 in. | To determine the absence or presence of contaminants. |
| SC-SS-03 | Surface Soil | South corner of dust collection system | 4 in. | To determine the absence or presence of contaminants. |
| SC-SS-04 | Surface Soil | Near loading dock on southeast side of building | 3 in. | To determine the absence or presence of contaminants. |
| SC-SS-05 | Surface Soil | From stained soil between waste compactor and drum storage area. | 4 in. | To determine the absence or presence of contaminants. |
| SC-SS-06 | Surface Soil | Southeast side of the drum storage area from stained soil | 2 in. | To determine the absence or presence of contaminants. |
| SC-SD-01 | Sediment | North corner of property, upgradient location in unnamed intermittent stream | 0-2 in. | To establish background levels. |
| SC-SD-02 | Sediment | In drainage ditch west of the facility, as runoff exists property | 0-2 in. | to determine the absence or presence of contaminants |
| SC-SD-03 | Sediment | In unnamed intermittent stream, south of the facility, just below the drum storage area. | 0-2 in. | to determine the absence or presence of contaminants. |
| SC-SD-04 | Sediment | In drainage ditch east of debris hill | 0-2 in. | to determine the absence or presence of contaminants. |

sample. At times, miscellaneous organic compounds that do not appear on the target compound list are reported with the data set. These compounds are qualified as "JN", indicating that they are tentatively identified at estimated quantities. Because these compounds are not routinely analyzed for or reported, background levels or MQL levels are not generally available for comparison. An excessive extraction holding time was noted for all extractable analyses in this sampling event, and analytical results are presented as estimated values.

4.0 Source Sampling

4.1 Sampling Locations

The source type at Simmons Casket Company is contaminated soil. During the sampling investigation it was noted that areas along the northeast to southeast side of the manufacturing plant were vegetatively stressed usually coinciding with areas of stained soil (Ref. 4, Appendix C). Shared contaminants that were detected in surface soil samples were utilized to outline the area affected by contaminated soil (Appendix B). Samples SC-SS-02, SC-SS-03, SC-SS-04 and SC-SS-05 were plotted to determine the waste source area of 5,000 square feet (Figure 3). Differences in elevation of the source area is minimal since it does not include the hill of debris (Appendix B). There exists no containment for the contaminated soil (Ref. 4). A discussion of soil pathway targets is contained in Section 7.0.

4.2 Analytical Results

Results of organic and inorganic sampling are presented in Tables 2 and 3. Sample SC-SS-01 is designated as the background sample for the surface soil media. Values for background sample results are presented either as a measured value or as the minimum quantitation limit (MQL). Samples containing concentrations of contaminants greater than three times the background level, or equal to or greater than the MQL of these contaminants are considered to be elevated. These samples are shaded on the tables and noted in the text.

4.2.1 Organic Analytical Results

Sample SC-SS-02, collected near the warehouse and the dust collector, contained an estimated 5300 ug/kg of phenol (12 times MQL) and an estimated 3700 ug/kg of pyrene (8 times MQL). This sample also contained 24,000 ug/kg of PCB-1260 (533 times MQL). Phenol was also elevated in sample SC-SS-04, taken near the loading

TABLE 2 SUMMARY OF ORGANIC ANALYTICAL RESULTS SURFACE SOIL SAMPLES SIMMONS CASKET COMPANY LANCASTER, GARRARD COUNTY, KENTUCKY

| | Background | ONSITE | | | | |
|---|------------|----------|----------|-----------|--|-----------|
| PARAMETERS (UG/KG) | SC-SS-01 | SC-SS-02 | SC-SS-03 | SC-SS-04 | SC-SS-05 | SC-SS-06 |
| MISCELLANEOUS PURGEABLES | | | | | | { |
| DIMETHYLCYCLOHEXANE | | | | | | 7JN |
| DIMETHYLHEPTANE | | | | | | 8JN |
| UNDECANE | | | | | | 40JN |
| DIMETHYLOCTANE | | | | | | 30JN_ |
| DIMETHYLOCTADECANE | | | | | | 50JN |
| UNIDENTIFIED COMPOUNDS / NO. | | | | | | 100J/5 |
| EXTRACTABLES | | | | | | |
| PHENOL | 440UJ | 53000 | 980J | 1400J | 3200J | <u> </u> |
| 2-METHYLPHENOL | 440UJ | 60J | | _ | 51J | |
| (3-AND/OR 4-) METHYLPHENOL | 440UJ | 66J | | | 49J | |
| PENTACHLOROPHENOL | 1100UJ | 380J | _ | | | |
| PHENANTHRENE | 440UJ | 83J | | | | |
| DI - N - BUTYLPHTHALATE | 440UJ | 610J | | | | _ |
| FLUORANTHENE | 440UJ | 670J | - | | | |
| PYRENE | 440UJ | 3700J | | 1 | <u> </u> | <u> </u> |
| BENZYL BUTYL PHTHALATE | 440UJ | | | 500J | 11001 | |
| 3,3' - DICHLOROBENZIDINE | 440UJ | 540J | | | | |
| BENZO(A) ANTHRACENE | 440UJ | 730J | | | | |
| BIS(2-ETHYLHEXYL) PHTHALATE | 440UJ | | _ | 56QJ | _ | _ |
| DI-N-OCTYLPHTHALATE | 440UJ | 1200 | | | | |
| MISCELLANEOUS EXTRACTABLES | | | | | | |
| HYDROXYBENZALDEHYDE (2 I SOMERS) | | 1000JN | 400JN | 1000JN | | |
| HYDROXYBENZONITRILE | | 100JN | | | | |
| METHYLENEBISPHENOL/ ISOMERS | | 6000JN/3 | 2000JN/2 | 10000JN/2 | | |
| HYDROXYBENZENEMETHANOL | | | | 200JN | | |
| HYDROXYBENZENEACETIC ACID | | | | 90JN | | |
| PHTHAUC ANHYDRIDE | | | | | 80JN | |
| BIS (DIMETHYLETHYL) CYCLOHEXADIENEDIONE | | | | | 300JN | 200WN |
| PETROLEUM PRODUCT | | | | | | N |
| UNIDENTIFIED COMPOUNDS / NO. | | 3000J/3 | | | | 20000J/12 |
| PCB'S | | | | | | , |
| PCB-1260 (AROCLOR-1260) | 45U | 24000 | 80 | _ | | |
| | | | | | | |

⁻ Material analyzed for but not detected above minimum quantitation limit.

- J Estimated value
- N Presumptive evidence of presence of material

U Material analyzed for but not detected above minimum quantitation limit. The value is the minimum quantitation limit for the sample.

TABLE 3

SUMMARY OF INORGANIC ANALYTICAL RESULTS SURFACE SOIL SAMPLES SIMMONS CASKET COMPANY LANCASTER, GARRARD COUNTY, KENTUCKY

| | Background | ONSITE | | | | | | |
|--------------------|------------|----------|----------|----------|----------|----------|--|--|
| Parameters (mg/kg) | SC-SS-01 | SC-SS-02 | SC-SS-03 | SC-SS-04 | SC-SS-05 | SC-SS-06 | | |
| ALUMINUM | 16000 | 19000 | 22000 | 6800 | 10000 | 11000 | | |
| ARSENIC | 11 | 35 | 20 | 6.6 | 6.1 | 6.6 | | |
| BARIUM | 220 | 170 | 160 | 100 | 61 | 64 | | |
| BERYLLIUM | 1.5 | 2.2 | 1.1 | 0.55J | 0.82 | 0.92 | | |
| CADMIUM | 2UJ | 1.5J | | | | | | |
| CALCIUM | 20000J | 12000J | 11000J | 150000J | 96000J | 29000J | | |
| CHROMIUM | 26 | 24 | 19 | 20 | 13 | 16 | | |
| COBALT | 19 | 13 | 14 | 7.2 | 10 | 18 | | |
| COPPER | 14J | 150J | 16J | 100J | 35J | 28J | | |
| IRON | 43000 | 39000 | 49000 | 15000 | 20000 | 23000 | | |
| LEAD | 55J | 160J | 27J | 54J | 26J | 43J | | |
| MAGNESIUM | 6800J | 3900J | 3700J | 27000J | 14000J | 9800J | | |
| MANGANESE | 1400J | 690J | 1700J | 480J | 730J | 1600 | | |
| NICKEL | 16 | 29 | 18 | 11 | 11 | 12 | | |
| POTASSIUM | 940 | 2700 | 1500 | 1100 | 900 | 740 | | |
| SODIUM | 58 | 380 | 480 | 400 | 120 | 70 | | |
| VANADIUM | 33 | 23 | 31 | | 17 | 23 | | |
| ZINC | 53J | 290J | 73J | 110J | 45J | 36J | | |

- Material analyzed for but not detected above minimum quantitation limit.
- U Material analyzed for but not detected above minimum quantitation limit.
 The value is the minimum quantitation limit for the sample.
- J Estimated value

dock (estimated 1400 ug/kg 3 times MQL). Also containing phenol was SC-SS-05, which was collected from an area of stained soil near the building. The concentration of phenol in this sample was estimated at 3200 ug/kg (7 times MQL). Various miscellaneous purgeables and extractables were also detected in surface soil samples (Table 2).

4.2.2 Inorganic Analytical Results

Arsenic was detected in SC-SS-02 at 35 mg/kg (3 times background). Calcium was found at elevated levels in samples SC-SS-04 and SC-SS-05. Sample SC-SS-02 also contained copper (estimated 150 mg/kg, 10 times background) and zinc (estimated 290 mg/kg, 5 times background). Sample SC-SS-04 also contained copper (estimated 100 mg/kg, 7 times background) and magnesium (estimated 27,000 mg/kg, 4 times background). Sodium was elevated in samples SC-SS-02, SC-SS-03, and SC-SS-04 (Table 3).

4.3 Conclusions

Contaminated soil was found at the Simmons Casket Company site, and several contaminants directly attributable to Simmons' operations were detected. These include phenol and copper. Also of note is the sharply elevated concentration of PCB-1260 at location SS-02. As this sample is located near the plant building and the warehouse, it is possible that a spill occurred in the immediate area, leading to the high concentration of PCB in only one area sampled on the property. The source of the polyaromatic hydrocarbons is estimated to be the paint thinners and lacquers used by the casket manufacturers.

5.0 Groundwater Pathway

5.1 Regional Hydrogeology

Simmons Casket Company is situated in the Nonglaciated Central Groundwater Region as well as Kentucky's Blue Grass Physiographic Region (Refs. 18, pp. 228, 229; 19, pp. 1, 2). The region is characterized by thin regolith over sedimentary rock with meandering, highly dissecting streams and rivers (Ref. 18, p. 229; 19, p. 5, Appendix A). The physiographic subdivision that Simmons Casket lies in is the Outer Blue Grass which is typified by chiefly limestone with considerable interbedded shale (Ref. 19, p. 5).

The soil beneath the facility is of the Lowell Association, more specifically, the soil type is the Nicholson silt loam (Refs. 1, 20). The silt loam is characterized by: 2 to 6 percent slopes, 2 to 3 foot depths, high acidity, poor drainage, good tilth, and high erodibility (Refs. 1, 20).

Beneath the soil lies approximately 120 to 135 feet of the Ashlock Formation (Ref. 21). Members that comprise this formation include: the Reba, the Terrill, the Stingy Creek, the Gilbert and the Tate (Ref. 21). The Ashlock Formation contains alternating layers of fossiliferous limestone and dolomitic and calcitic mudstone. Beneath the Ashlock lies the Calloway Creek Limestone which ranges in thickness between 75 and 105 feet (Ref. 21). The Calloway Creek Limestone contains about 75 percent limestone in addition to shale and siltstone. Whole and fragmented fossils are common throughout this unit (Ref. 21). Below the Calloway Creek Limestone lies the Garrard Siltstone with an approximate thickness of 30 to 50 feet (Ref. 21). Siltstone represents about 85 percent of the Garrard unit with shale and limestone as additional constituents. The Clay's Ferry Formation lies beneath the Garrard Siltstone and is composed mostly of limestone. All of the above mentioned units are Upper Ordovician in age (Ref. 21). Although the majority of these formations are composed of limestone, karst topography is not a prominant characteristic of the The shale layers impede circulation of groundwater and prevent the area. development of openings by solution within most thick limestone beds; however, fractures and bedding-plane openings may be enlarged (Ref. 22, sheet 3). Faults have been mapped approximately ½ mile north and ½ mile south of the site (Ref. 21). Small sinkholes are fairly common in the outer Blue Grass area but drainage is surficial and does not occur though solution cavities (Ref. 19, p. 5). The Karst Hazard Assessment Map of Kentucky classifies the site area as lying the "lowest risk" carbonate area with less than 1 percent sinkhole perforation (Ref. 23).

Groundwater occurs in the sand and gravel in large river valleys and within the consolidated bedrock that underlies the entire region (Ref. 19, p. 20). Groundwater may also exist in the regolith as well (Ref. 18., pp. 229, 230). Regolith is the mechanical and chemical breakdown of the bedrock and occurs above the Ashlock Formation. Fractures, pore spaces, and bedding planes are the principal water-bearing openings. The fine-grained limestone, mudstone, siltstone, and shale that exist beneath the site has small, poorly connected openings which result in slow groundwater circulation and poor groundwater availability (Refs. 18, p. 230, 22, sheet 3). Well yields in valley bottoms and along streams in upland areas have been noted

to produce 100 to 500 gallons per day (gpd) (Ref. 22, sheet 3). However, drilled wells in the facility's area will not produce enough water for a dependable domestic supply (Ref. 22, sheet 2). A 49 foot deep well located 1.5 mile southeast of Simmon's Casket Company has been classified as containing "salty and sulfurous" water; sodium chloride and hydrogen sulfide are in readily detectable amounts (Ref. 22, sheet 2). Estimated depth to the water table is approximately 30 to 40 feet based upon topographic analysis; groundwater flow direction is estimated to be in a southwestern direction (Appendix A).

Typical hydraulic conductivity values of the consolidated mudstone, limestone and siltstone beneath the facility range from 1.0×10^{-4} cm/sec to 1.0×10^{-3} cm/sec (Ref. 24, p. 29).

5.2 Groundwater Targets

Residents within a 4 mile radius of Simmons Casket Company do not utilize groundwater for potable use. The majority of residents rely on one of three municipal systems: Lancaster Water Works, Crab Orchard Water District, or Garrard County Water Association (Ref. 4). Both Crab Orchard and Garrard County purchase their water supply from Lancaster Water Works, and Lancaster Water Works utilizes a single surface water intake located in the Kentucky River near the junction of Sugar Creek approximately 10 miles north of Simmons (Ref. 4). Those residents that do not have access to a municipal system typically rely on private cisterns rather than private wells to provide potable water (Ref. 4).

5.3 Sample Locations

No groundwater samples were taken due to the inability to reach the water table. Additionally, no private wells were located in the vicinity.

5.4 Groundwater Conclusions

The groundwater pathway is of minimal concern at Simmons Casket Company. Groundwater within the 4 mile radius area is not utilized for potable use.

6.0 Surface Water Pathway

6.1 Hydrologic Setting

Two unnamed intermittent drainage streams lie parallel to each other and are located on the east and west sides of the manufacturing plant. These drainage ditches eventually join and flow parallel to Industry Road. All overland flow exits the property via these intermittent streams. The overland flow segment across the facility is approximately 0.3 mile (Ref. 4, Appendix A). After 1.1 mile of southeast flow, the stream joins Turkey Creek and flows southwesterly for 2.9 miles until it junctions with Gilberts Creek. Gilberts Creek travels west for 1.4 miles and then terminates into the northern flowing Dix River within which the surface water pathway ends (Appendix A). An estimated 30 acres of facility property is drained by overland runoff (Ref. 4). Simmons Casket Company is located within the 100 year flood plain (Ref. 1). The reported 1991 average annual flow rate for the Dix River was 639 cfs, the Gilbert and Turkey Creeks, under 100 cfs (Ref. 25).

6.2 Surface Water Targets

All municipal systems retrieve their water from a Kentucky River surface water intake near the adjoining Sugar Creek located 10 miles north of the facility, many miles beyond the end of the site's surface water pathway (Ref. 4, Appendix A). The intake pumps water to two distribution centers in Lancaster. At the Lancaster city limits, "master meters" located at each road leading out of the city measure the amount of water that Garrard County and Crab Orchard municipal systems utilize (Ref. 25). Connections that utilize the Kentucky River surface water intake are: 1500 by Lancaster Water Works, 2200 by Garrard County Water Association, and 700 by Crab Orchard Water District, a total of 4400 connections or approximately 11,396 people (Refs. 26, 27).

Endangered or threatened species that lie along the surface water pathway include the federally and state threatened salamander mussel (Simpsonaias ambigua) (Ref. 28). Also found is the special state concerned fish, the northern madtom (Noturus stigmousus) located within the Dix River (Ref. 28).

The Dix River is used for recreational swimming and recreational fishing (Ref. 29). Turkey Creek and Gilberts Creek have been utilized for recreational fishing; however, no commercial fisheries exist in the area (Ref. 29). Typical species found throughout

the surface water pathway include: shiners, bluegill, large mouth bass, white bass, channel catfish, brown and rainbow trout (Ref. 29).

6.3 Sampling Locations

The facility is surrounded along three sides by intermittent drainage ditches and streams which drain the entire facility property. These streams exit the property in three different locations all of which were sampled to determine if any contaminant migration is occurring via the surface water pathway. Sediment sample SD-01 is a background sample located in the northern corner of the site. Sample SD-02 is located at an exit point in the western corner just before the stream crosses under Industry Road. The SD-02 sample delineates site property that lies north and west of the manufacturing plant. Sediment sample SD-04 is representative of drainage flow originating from northeast area of the main plant, as well as runoff from the hill of debris. Sediment sample SD-03 was collected before exiting site property located in the southern corner of the facility's land. Sample SD-04 is representative of runoff from the drum storage area, the waste compactor, and the dust collection system. Sediment sample locations are shown on Figure 3.

6.4 Surface Water Pathway Analytical Results

Results of organic and inorganic sediment sampling are presented in Tables 4 and 5. Sample SC-SD-01 is designated as the background for the sediment media. Values for background sample results are presented either as a measured value or as the minimum quantitation limit (MQL). Samples containing concentrations of contaminants greater than three times the background level, or equal to or greater than the MQL of these contaminants are considered to be elevated. These samples are shaded on the tables and noted in the text.

6.4.1 Organic Sampling Results

The only elevated organic contaminant in sediments was benzyl butyl phthalate. This compound was detected at an estimated concentration of 7700 ug/kg (12 times MQL). Low concentrations of other polyaromatic hydrocarbons (PAHs) were detected in the other sediment samples, particularly SC-SD-02 (Table 4).

6.4.2 Inorganic Sampling Results

Elevated inorganics were detected only in sample SC-SD-03. Cadmium was found at an estimated concentration of 11 mg/kg (11 times MQL). Copper (estimated 95

TABLE 4 SUMMARY OF ORGANIC ANALYTICAL RESULTS SEDIMENT SAMPLES SIMMONS CASKET COMPANY LANCASTER, GARRARD COUNTY, KENTUCKY

| | Background | ļ | | |
|---------------------------------|------------|----------|------------|----------|
| PARAMETERS (UG/KG) | SC-SD-01 | SC-SD-02 | SC-SD-03 | SC-SD-04 |
| EXTRACTABLES | | | | |
| PHENANTHRENE | 650UJ | 370J | 68J | |
| ANTHRACENE | 650UJ | 73J | Ţ <u>-</u> | _ |
| FLUORANTHENE | 650W | 410J | 140J | |
| PYRENE | 650UJ | 280J | 130J | |
| BENZYL BUTYL PHTHALATE | 650W | - | 7700J | 650J |
| BENZO(A) ANTHRACENE | 650UJ | 180J | 100J | |
| CHRYSENE | 650UJ | 180J | 100J | - |
| BENZO (B AND/OR K) FLUORANTHENE | 650UJ | 240J | _ | |
| MISCELLANEOUS EXTRACTABLES | | | | |
| BENZOTHIAZOLE | | | 90JN | |
| UNIDENTIFIED COMPOUNDS / NO. | 3000J/3 | 600J/1 | | 2000J/1 |

- Material analyzed for but not detected above minimum quantitation limit.
- U Material analyzed for but not detected above minimum quantitation limit. The value is the minimum quantitation limit for the sample.
- J Estimated value
- N Presumptive evidence of presence of material

TABLE 5

SUMMARY OF INORGANIC ANALYTICAL RESULTS SEDIMENT SAMPLES SIMMONS CASKET COMPANY LANCASTER, GARRARD COUNTY, KENTUCKY

| | Background | | ONSITE | |
|--------------------|------------|----------|----------|----------|
| Parameters (mg/kg) | SC-SD-01 | SC-SD-02 | SC-SD-03 | SC-SD-04 |
| ALUMINUM | 12000 | 13000 | 12000 | 14000 |
| ARSENIC | 9.6 | 8.7 | 10 | 8.5 |
| BARIUM | 79 | 120 | 96 | 70 |
| BERYLLIUM | 1.1 | 1.1 | 1.1 | 1.2 |
| CADMIUM | 1UJ | _ | 11J | |
| CALCIUM | 18000J | 5500J | 14000J | 8600J |
| CHROMIUM | 20 | 25 | 34 | 17 |
| COBALT | 18 | 20 | 28 | 18 |
| COPPER | 16J | 11J | 95J | 14J |
| IRON | 30000 | 29000 | 42000 | 32000 |
| LEAD | 38J | 37J | 61J | 31J |
| MAGNESIUM | 5500J | 2500J | 4500J | 3600J |
| MANGANESE | 1400J | 1700J | 2300J | 1100J |
| NICKEL | 13 | 12 | 13 | 17 |
| POTASSIUM | 850 | 1000 | 590 | 1100 |
| SODIUM | 44 | 54 | 43 | 66 |
| VANADIUM | 28 | 29 | 46 | 23 |
| ZINC | 55J | 42J | 370J | 47J |

- Material analyzed for but not detected above minimum quantitation limit.
- U Material analyzed for but not detected above minimum quantitation limit.
 The value is the minimum quantitation limit for the sample.
- J Estimated value

mg/kg, 6 times background) and zinc (estimated 370 mg/kg, 6 times background) were also elevated in this sample (Table 5).

6.5 Conclusions

Generally, the sediments in the drainage pathways at Simmons Casket Company are not significantly contaminated. However, copper in SC-SD-03 is a concern, as it is directly attributable to Simmon's operations at the facility. Also found in SC-SD-03 is butyl benzyl phthalate which is attributable to casket painting and striping.

7.0 Soil Exposure and Air Pathways

7.1 Physical Conditions

The Simmons Casket Company occupies approximately 49 acres. It consists of a 100,000 square foot manufacturing plant plus an empty warehouse (Ref. 4). Located on the northeast side of the site property is a small hill of wood and metal debris mixed with soil. Lying west of the hill is the concrete drum storage pad, which was not being utilized during the sampling investigation. Other features of the site include wooded areas along the east and west perimeters of site boundaries (Ref. 4).

The facility is not fenced thus allowing easy access onto site property (Ref. 4). Stressed vegetation was observed along the southeastern portion of site property near the drum storage pad, the waste compactor, and the old loading dock (Ref. 4). Stained soil was also observed in these areas.

7.2 Soil and Air Targets

There are approximately 95 employees at Allison Abrasives, Inc. The nearest resident lives east of the facility on Industry Road, approximately 200 feet before the driveway of Allison Abrasives (Ref. 4). The nearest school is located within the city limits of Lancaster, approximately 0.4 miles north (Appendix A). One state threatened plant has been located within the 4 mile radius area from the site. The bigleaf snowball (Styrax grandifolius) was spotted about 2.5 miles north of the facility (Ref. 28). Total population within the 4-mile radius area of the site, based on topographic house counts plus data from the 1980 U. S. Census GEMS database is 7866 people (Refs. 27; 30; Appendix A). The specific ring radii contain the following populations: 0 - 0.25 mile, 138; 0.25 - 0.50 mile, 355; 0.50 - 1 mile, 3347; 1 -2 miles, 1831; 2 - 3 miles, 581; 3 - 4 miles, 1614 (Refs. 27; 30; Appendix A).

7.3 Soil and Air Conclusions

Sampling at Simmons Casket Company indicates that contaminates have been released to the environment. Surface soil samples contained phenol, pyrene, PCB-1260, arsenic, calcium, copper, and zinc as well as low concentrations of magnesium and sodium (Appendix B). The PCB-1260 is not attributable to past activities at the Simmons Casket Company. Due to relatively low elevated levels of contaminants in the soil plus a small population in the Lancaster area, the soil exposure pathway is of little concern. The only targets of concern are the 95 employees on site and the state-threatened plant mentioned above.

Field soil gas (OVA and HNu) readings were conducted for health and safety reasons, however, no measurements above background were detected. The dust collection system is well contained and Allison Abrasive employees use proper respiratory protection when working in that area, otherwise there is no indication of a release to the air pathway.

8.0 Summary and Conclusions

The sampling investigation at Simmons Casket Company revealed a 4.73 acre source area of contaminated soil. This parcel of land is located on the east to southeast side of the manufacturing plant - an area that contains a drum storage pad, a hill of metal and wood debris, a waste compactor, a loading dock, and a dust collection system. Surface soil samples were conducted within the area of contaminated soil and revealed elevated levels of the following organic compounds: phenol, pyrene, and PCB-1260. Also revealed within the source area are the following elevated inorganics: arsenic, calcium, copper, zinc, magnesium, and sodium.

Sediment samples were collected in ditches that drain the entire site property. These sediment samples were placed along three sides of the site's perimeter, and revealed the following elevated contaminants: benzyl butyl phthalate, cadmium, copper and zinc. The fact that the levels of these contaminates were not high plus a lack of surface water targets, renders the surface water pathway a small concern at Simmons Casket Company, despite the recreational fishing that occurs nearby.

The groundwater pathway is also of small concern at the facility. Due to high salinity and high hydrogen sulfide concentrations in local groundwater, private wells are not

utilized. The municipal systems that serve the area withdraw their water from a surface water intake on the Kentucky River. The residents not connected to a system utilize cisterns.

The soil exposure pathway is of minimal concern at Simmons Casket Company. This is due to the small population of the area and the lack of endangered or threatened species within a four mile radius area surrounding the site. There is no documented release to the air pathway; however, onsite workers may become exposed to dust while working around the dust collector.

Due to the lack of targets in the area and the low concentrations of contaminants, no further action is recommended for the Simmons Casket Company.

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B&V WASTE SCIENCE AND TECHNOLOGY CORP.

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CARC

Site Assessment Simmons Casket Company Work Assignment № 11 BVWST Project 52011.020 BVWST File E.1 October 30, 1992

REC'D.

Mr. Al Hanke Chief, Site Assessment U. S. EPA Region IV 345 Courtland Street, N. E. Atlanta, Georgia 30365

NOV 0 4 1992

Wrb-24-

Subject: Transmittal of Final Site Inspection

Dear Mr. Hanke:

As requested by Loften Carr, Site Assessment Manager, please find enclosed three copies of the Final Site Inspection Report, along with two copies of the references and HRS score sheets, for the Simmons Casket Company, EPA ID Nº KYD050074889, located in Lancaster, Garrard County, Kentucky. All comments have been addressed.

Should you have any questions, please give us a call.

Very truly yours,

B&V WASTE SCIENCE AND TECHNOLOGY CORP.

Carton 1. Helm

Carter J. Helm Project Scientist

ms Enclosures

cc: Mr. Doug Thompson, EPA PO w/o enclosures

Mr. Keith Mills, EPA CO w/enclosures Mr. Hubert Wieland, BVWST w/o enclosures

CONFIDENTIAL Hazard Ranking System Preliminary Score

SIMMONS CASKET COMPANY Lancaster, Garrard County, Kentucky

This preliminary score was calculated using the draft SI worksheets. Pathways evaluated include air, soil exposure, surface water, and groundwater. Results from the sampling investigation, which include surface soil and sediment samples, were utilized to determine the waste source in addition to the estimated waste quantity.

A hazardous waste quantity of 10 was calculated using the area that was sampled in which analysis indicated contamination. The 5,000 square foot area is located between the northeast to southeast corners of the manufacturing plant. This area includes the drum storage pad, the waste compactor, stained soil, and the dust collection systems. Contaminated soil is the waste source for the contaminants.

The hazardous substances that were found in samples include: phenol, benzyl butyl phthalate, pyrene, benzo(a)anthracene, PCB-1260, arsenic, and a few heavy metals. All four pathways were scored as potential.

The groundwater pathway scores the lowest due to no targets. The municipal systems utilize surface water, and residents without connections to the municipal systems use cisterns instead of private wells.

The surface water pathway does not contribute substantially to the score despite recreational fishing and swimming and endangered fish and mussel species on the pathway. The surface water intake used for municipal water systems in the area does not exist within the surface water pathway. The soil exposure pathway is the highest contributor to the overall score. Factors such as: workers onsite, contaminants in the surficial soils, and an endangered species nearby -- all are items which raise the pathway score.

The air pathway is of minimal concern and is, therefore, a low contributor to overall score. A sparsely populated area, plus containment of dusts produced onsite, do not support a serious threat to the air pathway.

Due to a low preliminary score, lack of targets and low concentrations of contaminants, no further action is recommended at the Simmons Casket Company facility.

| Overall Score | = | 5.65 |
|---|---|-------|
| S_a | = | 1.14 |
| $egin{array}{c} S_{gw} \ S_{sw} \ S_{se} \ S_{a} \end{array}$ | = | 10.60 |
| S_{sw}^{s} | = | 3.72 |
| S_{ew} | = | 0.12 |

| Site Name: | Simmons Casket Company |
|------------|-------------------------------------|
| Location: | Lancaster, Garrard County, Kentucky |

GROUND WATER MIGRATION PATHWAY SCORESHEET

FACTOR CATEGORIES AND FACTORS

| | Likelihood of Release to an Aquifer | Maximum Value | Value Assigned | |
|-----|---|---------------|----------------|-------------|
| 1. | Observed Release | 550 | | |
| 2. | Potential to Release | | | |
| | 2a. Containment | 10 | | |
| | 2b. Net Precipitation | 10 | ** | |
| | 2c. Depth to Aquifer | 5 | | |
| | 2d. Travel Time | 35 | | |
| | 2e. Potential to Release | | | |
| | [lines $2a \times (2b + 2c + 2d)$] | 500 | 340 | |
| | Likelihood of Release (higher of lines 1 and 2e) | 550 | | 340 |
| | Waste Characteristics | | | |
| 4. | Toxicity/Mobility | a | 100 | |
| 5. | Hazardous Waste Quantity | а | 10 | |
| 6. | Waste Characteristics | 100 | | 6 |
| | Targets | | | |
| 7. | Nearest Well | 50 | .0 | |
| 8. | Population | | | |
| | 8a. Level I Concentrations | ь | 0 | |
| | 8b. Level II Concentrations | b | 0 | |
| • | 8c. Potential Contamination | ь | 0 | |
| | 8d. Population (lines 8a + 8b + 8c) | Ъ | <u>_</u> | |
| 9. | Resources | 5 | 5 | |
| 10. | Wellhead Protection Area | 20 | 0 | |
| 11. | Targets (lines $7 + 8d + 9 + 10$) | ь | | 5 |
| | Ground Water Migration Score for an Aquifer | | | |
| 12. | Aquifer Score | | | |
| | [(lines 3 x 6 x 11)/82,500] ^e | 100 | | .124 |
| | Ground Water Migration Pathway Score | | | |
| 13. | Pathway Score (Sgw), (highest value | | | |
| | from line 12 for all aquifers evaluated) ^c | 100 | | .124 |

Maximum value applies to waste characteristics category. Maximum value not applicable.

Do not round to nearest integer.

| Site Name: | Simmons Casket Company | |
|------------|------------------------|---|
| | | - |

Location: Lancaster, Garrard County, Kentucky

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET

| | Factor Categories and Factors | Maximum Value | Value Assigned | |
|------------|---|---------------|----------------|-----|
| DR | INKING WATER THREAT | • | | |
| <u>Lik</u> | elihood of Release | | | |
| 1. | Observed Release | 550 | | |
| 2. | Potential Release by Overland Flow | | | |
| | 2a. Containment | 10 | | |
| | 2b. Runoff | 25 | | |
| | 2c. Distance to Surface Water | 25 | | |
| | 2d. Potential to Release by Overland Flow | | | |
| | [lines 2a x (2b + 2c)] | 500 | | |
| 3. | Potential to Release by Flood | | | |
| | 3a. Containment (Flood) | 10 | | |
| | 3b. Flood Frequency | 50 | | |
| | 3c. Potential to Release by Flood | | | |
| | (lines 3a x 3b) | 500 | | |
| 4. | Potential to Release | | | |
| | (lines 2d + 3c, subject to a maximum of 500) | 500 | | |
| 5. | Likelihood of Release (higher of lines 1 and 4) | 550 | | 400 |
| | Waste Characteristics | | | |
| 6. | Toxicity/Presistence | a | 10,000 | |
| 7. | Hazardous Waste Quantity | a | 10 | |
| 8. | Waste Characteristics | 100 | | 18 |
| | Targets | | | |
| 9. | Nearest Intake | 50 | 0 | |
| 10. | Population | | | |
| | 10a. Level I Concentrations | ь | . 0 | |
| | 10b. Level II Concentrations | ь | 0 | |
| | 10c. Potential Contamination | b | 0 | |
| | 10d. Population (lines 10a + 10b + 10c) | ь | 0 | |
| 11. | Resources | 5 | 0 | |
| 12. | Targets (lines 9 + 10d + 11) | ь | | 5 |
| | Drinking Water Threat Score | | | |
| 13. | Drinking Water Threat Score | | | |
| | [(lines 5 x 8 x 12)/82,500, subject to a | 4 | | |
| | maximum of 100) | 100 | | 44 |

| Site Name: | Simmons Casket Company |
|------------|-------------------------------------|
| Location: | Lancaster, Garrard County, Kentucky |

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET (continued)

| | Factor Categories and Factors | Maximum Value | Value Assigned | |
|------------|--|---------------|---------------------|------|
| HU | MAN FOOD CHAIN THREAT | | | |
| Lik | elihood of Release | | | |
| 14. | Likelihood of Release (same value as line 5) | 550 | | 400 |
| | Waste Characteristics | | | |
| 15. | Toxicity/Persistence/Bioaccumulation | a | 5 x 10 ⁸ | |
| 16. 17. | Hazardous Waste Quantity Waste Characteristics | a 1,000 | | 180 |
| | Targets | | | |
| 18. | Food Chain Individual | 50 | 0 | |
| 19. | Population 19a. Level I Concentrations | ь | 0 | |
| | 19b. Level II Concentrations | b | | |
| | 19c. Potential Human Food Chain | b | <u>~</u> | |
| | Contamination | Ъ | 3 | |
| | 19d. Population (lines 19a + 19b + 19c) | Ъ | 3 | |
| 20. | Targets (lines 18 + 19d) | | | 3 |
| | Human Food Chain Threat Score | | | |
| 21. | Human Food Chain Threat Score [(lines 14 x 17 | | | |
| | x 20)/82,5000, subject to a maximum of 100) | 100 | | 2.62 |
| EN | TRONMENTAL THREAT | | | |
| | Likelihood of Release | | | |
| 22. | Likelihood of Release (same value as line 5) | 550 | | 400 |

| Site Name: | Simmons Casket Company |
|------------|-------------------------------------|
| Location: | Lancaster, Garrard County, Kentucky |

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET (continued)

| | Factor Categories and Factors | Maximum Value | Value Assigned | |
|-----|---|---------------|---------------------|------|
| EN | VIRONMENTAL THREAT, (concluded) | | | |
| | Waste Characteristics | | | |
| 23. | Ecosystem Toxicity/Persistence/Bioaccumulation | a | 5 x 10 ⁸ | |
| 24. | Hazardous Waste Quantity | a | 10 | |
| 25. | Waste Characteristics | 1,000 | | 180 |
| 26. | Sensitive Environments | | • | |
| | 26a. Level I Concentrations | Ъ | | |
| | 26b. Level II Concentrations | ь | •• | |
| | 26c. Potential Contamination | ь | | |
| | 26d. Sensitive Environments | | | |
| | (lines 26a + 26b + 26c) | b | .75 | |
| | Targets | | | |
| 27. | Targets (value from line 26d) | | - | .75 |
| | Environmental Threat Score | | | |
| 28. | Environmental Threat Score | | | |
| | [(lines 22 x 25 x 27)/82,500, | 40 | | |
| | subject to a maximum of 60] | 60 | - | .66 |
| SUE | RFACE WATER OVERLAND/FLOOD MIGRATION | COMPONENT SCO | ORE FOR A WATERS | HED |
| 29. | Watershed Score ^c (lines 13 + 21 + 28, | | | |
| | subject to a miximum of 100) | 100 | - | 3.72 |
| SUF | RFACE WATER OVERLAND/FLOOD MIGRATION | COMPONENT SCO | PRE | |
| 30. | Component Score $(S_{of})^c$ (highest score from | | | |
| | line 29 for all watersheds evaluated, subject | | | |
| | to a maximum of 100) | 100 | _ | 3.72 |

Maximum value applies to waste characteristics category.

Maximum value not applicable.

Do not round to nearest integer.

| Site | Name: |
|--------------|-------|
| σ_{i} | · · |

Simmons Casket Company

Location:

Lancaster, Garrard County, Kentucky

SOIL EXPOSURE PATHWAY SCORESHEET

| | Factor Categories and Factors | Maximum Value | Value Assigned | |
|-----|---|---------------|----------------|-------------|
| RE | SIDENT POPULATION THREAT | | | |
| | Likelihood of Exposure | | | |
| 1. | Likelihood of Exposure | 550 | | 550 |
| | Waste Characteristics | | | |
| 2. | Toxicity | a | 10,000 | |
| 3. | Hazardous Waste Quantity | a | 10 | |
| 4. | Waste Characteristics | 100 | | 18 |
| | Targets | | | |
| 5. | Resident Individual | 50 | 0 | |
| 6. | Resident Population | | | |
| | 6a. Level I Concentrations | ь | 0 | |
| | 6b. Level II Concentrations | ь | 0 | |
| | 6c. Resident Population (lines 6a + 6b) | ь | 0 | |
| 7. | Workers | 15 | 5 | |
| 8. | Resources | 5 | 0 | |
| 9. | Terrestrial Sensitive Environments | С | 75 | |
| 10. | Targets (lines $5 + 6c + 7 + 8 + 9$) | ь | | 80 |
| | Resident Population Threat Score | | | |
| 11. | Resident Population Threat | | | |
| | (lines 1 x 4 x 10)/82,500 | b | | 0 |
| NEA | RBY POPULATION THREAT | | | |
| | Likelihood of Exposure | | | |
| 12. | Attractiveness/Accessibility | 100 | | |
| 13. | Area of Contamination | 100 | | |
| 14. | Likelihood of Exposure | 500 | | |
| | Waste Characteristics | | | |
| 15. | Toxicity | a | •• | |
| 16. | Hazardous Waste Quantity | a | ** | |
| 17. | Waste Characteristics | 100 | | |
| | | | | |

| Site Name: | Simmons Casket Company |
|------------|-------------------------------------|
| Location: | Lancaster, Garrard County, Kentucky |

SOIL EXPOSURE PATHWAY SCORESHEET (contiued)

| Factor Categories and Factors M | | Maximum Value | Value Assigned | |
|---------------------------------|---|---------------|---|-------|
| NE | ARBY POPULATION THREAT, (continued) | | | |
| | Targets | | | |
| 18. | Nearby Individual | 1 | ** | |
| 19. | Population Within 1 Mile | Ъ | | |
| 20. | Targets (lines 18 + 19) | b | | |
| | Nearby Population Threat Score | | | |
| 21. | Nearby Population Threat (lines 14 x 17 x 20) | b | | 9.60 |
| soi | L EXPOSURE PATHWAY SCORE | | learby Population Threat: Default Value) | 1 |
| 22. | Soil Exposure Pathway Score ^d (S ₂), (lines [11 + 21] subject to a maximum of 100) | • | · | 10.60 |

Maximum value applies to waste characteristics category.

Maximum value not applicable.

No specific maximum value applies to factor. However pathway score based solely on sensitive environments is limited to maximum of 60.

Do not round to nearest integer.

| Site Name: | Simmons Casket Company |
|------------|------------------------|
| | |

Location: Lancaster, Garrard County, Kentucky

AIR MIGRATION PATHWAY SCORESHEET

FACTOR CATEGORIES AND FACTORS

| | Likelihood of Release | Maximum Value | Value Assigned | |
|-----|--|---------------|----------------|------|
| 1. | Observed Release | 550 | •- | |
| 2. | Potential to Release | | | |
| | 2a. Gas Potential to Release | 500 | | |
| | 2b. Particulate Potential to Release | 500 | | |
| | 2c. Potential to Release (higher of lines 2a and 2 | b) 500 | ** | |
| 3. | Likelihood of Release (higher of lines 1 and 2c) | a | | 500 |
| | Waste Characteristics | | | |
| 4. | Toxicity/Mobility | a | 1 | |
| 5. | Hazardous Waste Quantity | а | 10 | |
| 6. | Waste Characteristics | 100 | | 2 |
| | Targets | | | |
| 7. | Nearest Individual | 50 | 1 | |
| 8. | Population | | | |
| | 8a. Level I Concentrations | ь | 0 | |
| | 8b. Level II Concentrations | ь | 0 | |
| | 8c. Potential Contamination | ь | 18 | |
| | 8d. Population (lines 8a + 8b + 8c) | ь | 18 | |
| 9. | Resources | 5 | 0 | |
| 10. | Sensitive Environments | | | |
| | 10a. Actual Contamination | c | 0 | |
| | 10b. Potential Contamination | c | 75 | |
| | 10c. Sensitive Environments (lines 10a + 10b) | c | 75 | |
| 11. | Targets (lines 7 + 8d + 9 + 10c) | b | | 94 |
| | Air Migration Pathway Score | | | |
| 12. | Pathway Score (S _a) | | | |
| | [(lines 3 x 6 x 11)/82,500] ^d | 100 | | 1.14 |

Maximum value applies to waste characteristics category.

b Maximum value not applicable.

No specific maximum value applies to factor. However pathway score based solely on sensitive environments is limited to maximum of 60.

Do not round to nearest integer.

SAS REPORT REVIEW CHECKLIST

| PA SI SIP ESI |
|---|
| SITE NAME: SIMMONS CASKET CO |
| EPA ID: MAND KYDO 50074889 |
| WASTELAN ID: 1994 |
| |
| DO COMMENT LETTER, IF NECESSARY. |
| MARK DISPOSITION ON REPORT. |
| - ENTER INTO WASTELAN. |
| <u>MA</u> - do tasking form, if necessary: |
| ADD EVENT TO WASTELAN. |
| CALL ARCS IF FINAL. |
| DO DISPOSITION FORM. |
| - REMOVE HRS & STAMP FOIA EXEMPT MATERIALS. |
| - REFER/DEFER TO ERRB/RCRA, IF APPLICABLE. |
| SEND COPY OF REPORT TO STATE. |
| - SEND COPY OF REPRT TO PRP. AS DEEMED APPROPRIATE. |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

DISPOSITION NOTIFICATION FORM

| SITE NAME: SIMMONS CASKET COMPANY |
|--|
| EPA ID. NO.: KYD050074889 |
| REF. NO.: 1994 |
| EPA PROJECT MANAGER: LOFTEN CARR 8/25/2- |
| |
| EVENT LEAD: EPA |
| EVENT TYPE: SI |
| REPORT PREPARER: CARTER HELM |
| RECOMMENDED DISPOSITION: NO FURTHER ACTION |
| APPROVED DISPOSITION: SITE EVALUATION ACCOMPLISHED (NFRAP) |
| APPROVAL DATE: AUGUST 28. 1992 |

APPENDIX A Topographic Map

OVERSIZED

DOCUMENT

APPENDIX B Analytical Data

ORGANIC DATA QUALIFIER REPORT

Case Number 17847 Project Number 92-0331 SAS Number Site ID. Simmons Casket Co., Lancaster, KY.

| Affected Samples | Compound or Fraction | Flag <u>Used</u> | Reason |
|----------------------------------|----------------------|---------------------|-----------------------------------|
| <u>Volatiles</u> none | | | |
| Extractables all samples | all extractables | J | excessive extraction holding time |
| <u>Pesticides</u> all samples | aldrin | J | low GPC recovery |

INORGANIC DATA QUALIFIERS REPORT

Case Number: 17847
Project Number: 92-0331
Site: Simmons Casket Co., Lancaster, KY

| Element | | | Reason |
|-----------------------------|---|--|--|
| Al, Cd, Cr, Fe Mn, V, Zn | บ | All positives > IDL, but < CRDL | Baseline Instability |
| Ва | U | All positives > IDL, but < 10X contaminant level | Positives in blanks |
| Sb | J | All positives All negatives | Matrix spike recovery = 26.5% |
| Cd | J | A11 | Matrix spike recovery - 60.9% |
| Cu | J | All positives | Matrix spike recovery = 669.1% |
| Se | J | A11 | Matrix spike recovery - 63.9% |
| Ag | J | A11 | Matrix spike recovery - 58.7% |
| Zn | J | A11 | Matrix spike recovery - 59.5% |
| Ca | J | A11 | Matrix duplicate RPD = 62.5% |
| Pb | J | A11 | Matrix duplicate RPD = 43.3% |
| Mg | J | A11 | Matrix duplicate RPD - 36.4% |
| Mn | J | A11 | Matrix duplicate RPD - 42.2% |
| Pb | J | MDCL62 and MDCL63 | Duplicate MSA r <.995 |
| Cd | J | MDCL61 | % RSD > 20% for ICP multiple exposures |
| Be | J | MDCL63 | % RSD > 20% for ICP multiple exposures |

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METALS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65463 SAMPLE TYPE: SOIL

ANALYTICAL RESULTS

SOURCE: SIMMONS CASKET CO STATION ID: SD-01

* * ** CASE NUMBER: 17847

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1130 STOP: 00/00/00

MD NUMBER: CL57

ANALYTICAL RESULTS

MG/KG ANTIMONY 10UR CADMIUM 1UJ

MG/KG MERCURY 0.140 SELENIUM 1.3UJ SILVER .6UJ 0.670 THALLIUM TIN PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1130 STOP: 00/00/00 D. NO.: CL57 MD NO: CL57

PROJECT NO. 92-0331 SAMPLE NO. 65463 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-01 CASE.NO.: 17847 SAS NO.:

RESULTS UNITS PARAMETER 8.5U MG/KG CYANIDE

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

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04/02/92

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METALS DATA REPORT PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-02 CASE NUMBER: 17847 ** COLLECTION START: 02/26/92 1300 STOP: 00/00/00 ** ** SAS NUMBER: MD NUMBER: CL58 * * * * * * * * * * * * * * * * * * ANALYTICAL RESULTS ANALYTICAL RESULTS MG/KG MERCURY ANTIMONY 8.8UR 0.140 SELENIUM SILVER 1.2UJ CADMIUM **2UJ** 1.4UJ

TIN PERCENT MOISTURE

THALLIUM

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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** PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD **

SOURCE: SIMMONS CASKET CO STATION ID: SD-02 CASE.NO.: 17847

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1300 STOP: 00/00/00 D. NO.: CL58 MD NO: CL58

** SAS NO.: ** ** **

> RESULTS UNITS PARAMETER 7.5U MG/KG CYANIDE

FOOTNOTES

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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METALS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65465 SAMPLE TYPE: SOIL

SOURCE: SIMMONS CASKET CO STATION ID: SD-03 CASE NUMBER: 17847

ANALYTICAL RESULTS

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1340 STOP: 00/00/00

SAS NUMBER:

MD NUMBER: CL59

ANALYTICAL RESULTS

7.2IIR ANTIMONY

MERCURY 0.11U - C 5 " 183 0.94UJ SELENTUM 1.2UJ SILVER 0 470 THALLIUM ŇΔ TIN · CATES PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

> RESULTS UNITS PARAMETER 5.9U MG/KG CYANIDE

^{***}FOOTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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METALS DATA REPORT PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-04 COLLECTION START: 02/26/92 1450 STOP: 00/00/00 * * SAS NUMBER: MD NUMBER: CL60 ** CASE NUMBER: 17847 ** MG/KG **ANALYTICAL RESULTS** ANALYTICAL RESULTS ESE MERCURY ANTIMONY 0.150 10UR. SELENIUM SILVER 1.30J CADMIUM .6UJ

40

0.630

PERCENT MOISTURE

THALLIUM TIM

REMARKS

REMARKS

FOOTNOTES *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

STATION ID: SD-04

PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1450 STOP: 00/00/00 D. NO.: CL60 MD NO: CL60

CASE NO.: 17847 ** ** SAS NO.: ** * *

> RESULTS UNITS PARAMETER 8.10 MG/KG CYANIDE

FOOTNOTES *A-AVERAGE VALUE *NA~NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

| * * * | * * | |
|--|---|--|
| * * * * * * * * * * * * * * * * * * * | NO.: CL57 * * * * * * * * * * * * * * * * * * * | U 1,2-DICHLOROPROPANE U CIS-1,3-DICHLOROPROPENE U TRICHLOROETHENE (TRICHLOROETHYLENE) U DIBROMOCHLOROMETHANE U 1,1,2-TRICHLOROETHANE U BENZENE U RANS-1,3-DICHLOROPROPENE U METHYL ISOBUTYL KETONE U METHYL ISOBUTYL KETONE U METHYL LACACHLOROETHYLENE) U TETRACHLOROETHENE (TETRACHLOROETHYLENE) U TÓLUE U CHLOROBENZENE U CHLOROBENZENE U CHLOROBENZENE U TÓLUE U TÓTAL U T |
| | SAS NO.: | 4 LENE) |
| ** PROJECT NO. 92-0331 SAMPLE NO. 65 ** SOURCE: SIMMONS CASKET CO ** STATION ID: SD-01 | ** CASE NO.: 17847 *** * * * * * * * * * * * * * * * * * | 20U CHLOROMETHANE 20U BROMOMETHANE 20U VINYL CHLORIDE 20U VINYL CHLORIDE 20U WINYLENE CHLORIDE 40U METHYLENE CHLORIDE 20U GARBON DISULFIDE 20U 1,1-DICHLOROETHENE (1,1-DICHLOROETH 20U 1,1-DICHLOROETHENE (TOTAL) 20U 1,2-DICHLOROETHENE (TOTAL) 20U 1,2-DICHLOROETHENE 20U 1,2-DICHLOROETHANE 20U METHYL ETHYL KETONE 20U METHYL ETHYL KETONE 20U METHYL ETHYL KETONE 20U METHYL ETHYL KETONE 20U GARBON TETRACHLOROETHANE 20U CARBON TETRACHLOROETHANE 20U GARBON TETRACHLOROMETHANE |
| | ; * | ## # # # # # # # # # # # # # # # # # # |

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

**A-CTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WALS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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REMARKS
EXCESSIVE HOLDING TIME

REMARKS

NECESSARY OF PRESENCE GIVEN Ş

VERIFICATION

윾

MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROG ELEM: NSF COLLECTED BY: B STAFFORD

PROJECT NO. 92-0331 SAMPLE NO. 65463 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-01 CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1130 STOP: 00/00/00 CASE NO.: 17847 D. NO.: CL57 MD NO: CL57 SAS NO.:

** **

ANALYTICAL RESULTS UG/KG

REMARKS EXCESSIVE HOLDING TIME

* *

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION. ***REMARKS***

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEC

*C-CONFIRMED BY GCMS NECESSARY FOR OF PRESENCE GIVEN VERIFICATION 윾 MATERIAL

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/13/92

| PURGEABLE ORGANICS DATA REPORT | ESD, AIMENS, GA. | 04/13/92 |
|---|--|-------------------------|
| ** PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL ** SOURCE: SIMMONS CASKET CO ** STATION ID: SD-02 | PROG ELEM: NSF COLLECTED BY: B STAFFORE CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1300 STOP: | D ** ** |
| ** CASE NO.: 17847 SAS NO.: *** * * * * * * * * * * * * * * * * * | D. NO.: CL58 * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * *** |
| CHLOROMETHANE SROMOMETHANE UNIVER CHLORIDE CHLOROETHANE UNIVERSE CHLORIDE CHLOROETHANE CHLOROETHANE CHLOROETHANE CARBON DISULFIDE SU 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) LIU 1,1-DICHLOROETHANE CHLOROFORM CHLOROFORM SU 1,2-DICHLOROETHANE CHLOROFORM SU 1,2-DICHLOROETHANE SU 1,2-DICHLOROETHANE CHLOROFORM CHLOROFORM CHLOROFORM CHLOROETHANE CHLOROETHANE CARBON TETRACHLORIDE CARBON TETRACHLORIDE CARBONODICHLOROMETHANE | 15U 1,2-DICHLOROPROPANE 15U CIS-1,3-DICHLOROPROPENE 15U TRICHLOROETHENE (TRICHLOROETHYLENE) 15U DIBROMOCHLOROMETHANE 15U 1,1,2-TRICHLOROETHANE 15U BENZENE 15U TRANS-1,3-DICHLOROPROPENE 15U BROMOFORM 15U METHYL ISOBUTYL KETONE 15U METHYL BUTYL KETONE 15U TETRACHLOROETHENE (TETRACHLOROETHYL) 15U 1,1,2,2-TETRACHLOROETHANE 15U CHLOROBENZENE 15U CHLOROBENZENE 15U STYRENE 15U STYRENE 15U TOTAL XYLENES 34 PERCENT MOISTURE | ENE) |

REMARKS

REMARKS

FOOTNOTES *FOUTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/13/92

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EXTRACTABLE ORGANICS DATA REPORT
PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL
                                                                       PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1300 STOP: 00/00/00
    SOURCE: SIMMONS CASKET CO
STATION ID: SD-02
                                                                                                                                   * *
** CASE NO.: 17847
                                               SAS NO.:
                                                                       D. NO.: CL58
                                                                                                                                   *
ANALYTICAL RESULTS
   UG/KG
                                                                      UG/KG
                                                                              ANALYTICAL RESULTS
  500UJ PHENOL
500UJ BIS(2-CHLOROETHYL) ETHER
                                                                     1200UJ 3-NITROANILINE
500UJ ACENAPHTHENE
                                                                     1200UJ 2,4-DINITROPHENOL
1200UJ 4-NITROPHENOL
500UJ DIBENZOFURAN
   500UJ 2-CHLOROPHENOL
  5000J
500UJ
         1,3-DICHLOROBENZENE
         1,4-DICHLOROBENZENE
1,2-DICHLOROBENZENE
   500UJ
                                                                      500UJ
                                                                             2,4-DINITROTOLUENE
   500UJ 2-METHYLPHENOL
                                                                      SOOUJ DIETHYL PHTHALATE
                                                                      500UJ 4-CHLOROPHENYL PHENYL ETHER
   500UJ 2,27-CHLOROISOPROPYLETHER
   500UJ (3~AND/OR 4-)METHYLPHENOL
                                                                      500UJ FLUORENE
                                                                     1200UJ 4-NITROANILINE
   500UJ N-NITROSODI-N-PROPYLAMINE
                                                                     1200UJ 2-METHYL-4,6-DINITROPHENOL

500UJ N-NITROSODIPHENYLAMINE/DIPHENYLAMINE

500UJ 4-BROMOPHENYL PHENYL ETHER
   500UJ HEXACHLOROETHANE
   500UJ
         NITROBENZENE
   500UJ
         ISOPHORONE
   500UJ 2-NITROPHENOL
                                                                      500UJ HEXACHLOROBENZENE (HCB)
   500UJ 2,4-DIMETHYLPHENOL
                                                                     1200UJ PENTACHLOROPHENOL
  500UJ BIS(2-CHLOROETHOXY) METHANE
500UJ 2,4-DICHLOROPHENOL
500UJ 1,2,4-TRICHLOROBENZENE
                                                                      SOOUJ CARBAZOLE
   SOOUJ NAPHTHALENE
                                                                      SOOUJ DI-N-BUTYLPHTHALATE
   500UJ
         4-CHLOROANILINE
         HEXACHLOROBUTADIENE
   500UJ
   500UJ
         4-CHLORO-3-METHYLPHENOL
                                                                      SOOUJ BENZYL BUTYL PHTHALATE
   500UJ 2-METHYLNAPHTHALENE
                                                                      500UJ 3,3'-DICHLOROBENZIDINE
 500UJ HEXACHLOROCYCLOPENTADIENE (HCCP)
500UJ 2,4,6-TRICHLOROPHENOL
1200UJ 2,4,5-TRICHLOROPHENOL
                                                                      500UJ BIS(2-ETHYLHEXYL) PHTHALATE
         2-CHLORONAPHTHALENE
2-NITROANILINE
   500ÚJ
                                                                      500UJ DI-N-OCTYLPHTHALATE
  1200UJ
         DIMETHYL PHTHALATE
                                                                             BENZO-A-PYRENE
   500UJ
   500UJ ACENAPHTHYLENE
                                                                      500UJ
                                                                             INDENO (1,2,3-CD) PYRENE
  500UJ 2.6-DINITROTOLUENE
                                                                             DIBENZO(A, H) ANTHRACENE
                                                                       500มJ
                                                                      500UJ BENZO(GHI)PERYLENE
                                                                         34 PERCENT MOISTURE
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REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/13/92

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT SOURCE: SIMMONS CASKET CO STATION ID: SD-02 CASE.NO.: 17847 * * * * ** ** MD NO: CL58 ** SAS NO.: D. NO.: CL58 ** * * * *

ANALYTICAL RESULTS UG/KG

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| ALPHA-BHC 2.5U DELTA-BHC 2.5U GAMMA-BHC (LINDANE) 2.5U GAMMA-BHC (LINDANE) 2.5U HEPTACHLOR 2.5 | *** * * * * * * * * * * * * * * * * * | PROJECT NO. 92-03 SOURCE: SIMMONS C STATION ID: SD-02 CASE NUMBER: 1784 | SAMPLE AND ANACTOR SEPA-REGION |
|--|---------------------------------------|---|--------------------------------|
| 25U METHOXYCHLOR 4.9U ENDRIN ALDEHYDE 6.9U ENDRIN ALDEHYDE 7.5U ALDEHYDE /2 2.5U GAMMA-CHLORDANE /2 2.5U ALPHA-CHLORDANE /2 2.5U ARMOCLOR 1032) 49U PCB-1221 (AROCLOR 1242) 49U PCB-1242 (AROCLOR 1254) 49U PCB-1254 (AROCLOR 1254) 49U PCB-1260 (AROCLOR 1256) 34 PERCENT MOISTURE | # # # # # # # # # # # # # # # # # # # | * * * * * * * * * * * * * * * * * * * | IV ESD, ATHENS, GA. 04/13/92 |

REMARKS

REMARKS

****FOOTNOTES****

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *L-ACTUAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

EPA-REGION IV ESD, ATHENS, GA. 04/13/92 PURGEABLE ORGANICS DATA REPORT PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1340 STOP: 00/00/00 PROJECT NO. 92-0331 SAMPLE NO. 65465 SAMPLE TYPE: SOIL * * ** SOURCE: SIMMONS CASKET CO STATION ID: SD-03 ** * * ** ** * * ** D. NO.: CL59 ** CASE NO.: 17847 SAS NO.: ** UG/KG UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS 13U CHLOROMETHANE

13U 1,2-DICHLOROPROPANE
13U CIS-1,3-DICHLOROPROPENE
13U TRICHLOROETHENE(TRICHLOROETHYLENE) 130 BROMOMETHANE VINYL CHLORIDE 130 13U DIBROMOCHLOROMETHANE CHLOROETHANE 130 300 METHYLENE CHLORIDE 13U 1.1.2-TRICHLOROETHANE 130 ACETONE 13U BENZENE TRANS-1,3-DICHLOROPROPENE 130 CARBON DISULFIDE 130 130 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13Ū BROMOFORM METHYL ISOBUTYL KETONE METHYL BUTYL KETONE 1,1-DICHLOROETHANE 130 130 1.2-DICHLOROETHENE (TOTAL) 130 130 CHLOROFORM TETRACHLOROETHENE (TETRACHLOROETHYLENE) 130 130 1,2-DICHLOROETHANE 1.1.2.2-TETRACHLOROETHANE 130 130 130 METHYL ETHYL KETONE 13U TOLUENE 1,1,1-TRICHLOROETHANE 13U CHLOROBENZENE 130 130 CARBON TETRACHLORIDE 13U ETHYL BENZENE 130 BROMODICHLOROMETHANE 130 STYRENE TOTAL XYLENES 13U PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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; _

| 04/13/92 | * | * | | |
|---------------------|---|---|---|--|
| IV ESD, ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | D. NO.: CL59 * * * * * * * * * * * * * * * * * * * | 1100UJ 3-NITROANILINE 430UJ ACENAPHTHENE 1100UJ 2.4-DINITROPHENOL 1100UJ 2.4-DINITROPHENOL 430UJ 2.4-DINITROPHENOL 430UJ 2.4-DINITROPHENOL 430UJ 4-CHLOROPHENYL PHENYL ETHER 430UJ 4-CHLOROPHENYL PHENYL ETHER 1100UJ 2-METHYL ACEDINITROPHENOL 430UJ A-NITROSODIPHENYLAMINE 430UJ 4-BROMOPHENYL PHENYL ETHER 430UJ 4-BROMOPHENYL PHENYL ETHER 430UJ 4-BROMOPHENYL PHENYL ETHER | 430UJ BIS(2-ETHYLHEXT) 430UJ BIS(2-ETHYLHEXT) 430UJ BIS(2-ETHYLHEXT) PHTHALATE 430UJ BIS(2-ETHYLHEXYL) PHTHALATE 430UJ BENZO(A,H)ANTHRACENE 430UJ DIBENZO(A,H)ANTHRACENE 430UJ BENZO(GHI)PERYLENE 22 PERCENT MOISTURE |
| | EXTRACTABLE ORGANICS DATA REPORT *** * * * * * * * * * * * * * * * * * | ** CASE NO.: 17847 *** * * * * * * * * * * * * * * * * * | 430UJ PHENOL 430UJ 2-CHLOROETHYL) ETHER 430UJ 1-CHLOROBENZENE 430UJ 1-3-DICHLOROBENZENE 430UJ 1-2-DICHLOROBENZENE 430UJ 2-METHYLPHENOL 430UJ 2-2.2'-CHLOROISOPROPYLETHER 430UJ 2-METHYLPHENOL 430UJ N-NITROSODI-N-PROPYLAMINE 430UJ ISOPHOROIENZENE 430UJ ISOPHORONE 430UJ 2-NITROBENZENE | 430UJ 2.4-DIMETHYLPHENOL 430UJ 1.2.4-TRICHLOROEHENOL 430UJ 1.2.4-TRICHLOROBENZENE 430UJ 1.2.4-TRICHLOROBENZENE 430UJ 4-CHLOROBUILINE 430UJ 2-METHYLPHENOL 430UJ 2-METHYLPHENOL 430UJ 2.4.6-TRICHLOROPHENOL 1100UJ 2.4.6-TRICHLOROPHENOL 430UJ 2-CHLORONAPHTHALENE 1100UJ 2-CHLORONAPHTHALENE 130UJ 2-CHLORONAPHTHALENE |

REMARKS

REMARKS EXCESSIVE HOLDING TIME

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*Y-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS, GA.

04/13/92

ANALYTICAL RESULTS UG/KG

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| 04/13/92 | ***** | *** | |
|--|--|---------------------------------------|--|
| VAGEMENT SYSTEM ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | 200 METHOXYCHLOR 4.10 ENDRIN KETONE 6.10 ENDRIN KETONE CHLORDANE (TECH. 7.2 2.00 GAMMA-CHLORDANE 7.2 2.00 TOXAPHENE 7.2 2.00 TOXAPHENE 7.2 410 PCB-1232 (AROCLOR 1221) 410 PCB-1232 (AROCLOR 1222) 410 PCB-1242 (AROCLOR 1242) 410 PCB-1243 (AROCLOR 1243) 410 PCB-1244 (AROCLOR 1254) 410 PCB-1256 (AROCLOR 1254) 410 PCB-1256 (AROCLOR 1254) 410 PCB-1250 (AROCLOR 1254) 410 PCB-1250 (AROCLOR 1254) 410 PCB-1250 (AROCLOR 1254) |
| SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA. | FESTICIOS/PLOS DATA REFORMENTE STATE STATE STATE STATE TYPE: SOIL PF SOURCE: SIMMONS CASKET CO CONTRACTOR STATE NO. 65465 SAMPLE TYPE: SOIL CONTRACTOR STATE | * * * * * * * * * * * * * * * * * * * | 1 |
| nd Atam oldon oldon | #** * * * * * * * * * * * * * * * * * * | *** * * * * * * * * * * * * * * * * * | 2.00 ALPHA-BHC 2.00 BETA-BHC 2.00 GAMMA-BHC (LINDANE) 2.00 HEPTACHLOR 2.00 HEPTACHLOR 2.00 HEPTACHLOR 4.10 4,4'-DDE (P.P'-DDE) 4.10 4,4'-DDD (P.P'-DDE) 4.10 ENDRIN 4.10 4,4'-DDD (P.P'-DDD) 4.10 ENDRSULFAN II (BETA) 4.10 ENDOSULFAN II (BETA) 4.10 ENDOSULFAN SULFATE 4.10 ENDOSULFAN SULFATE 4.10 ENDOSULFAN SULFATE |

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
**A-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
**U-MATERIAL VALUE IS KNOWN TO BE TOTAL THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*U-MATERIAL VALUE THAT DATA UNUSABLE. COMPOUND MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*R-GC INDICATES THAT DATA UNUSABLE. CHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/13/92

PURGEABLE ORGANICS DATA REPORT PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1450 STOP: 00/00/00 PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-04 * * ** ** ** CASE NO.: 17847 SAS NO.: D. NO.: CL60 * * UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS 17U 1.2-DICHLOROPROPANE 17U CIS-1.3-DICHLOROPROPENE 17U TRICHLOROETHENE(TRICHLOROETHYLENE) 170 CHLOROMETHANE 17U BROMOMETHANE 17U VINYL CHLORIDE 170 CHLOROETHANE 300 METHYLENE CHLORIDE 17U DIBROMOCHLOROMETHANE 17U 1,1,2-TRICHLOROETHANE 170 BENZENE 170 ACETONE 17U TRANS-1,3-DICHLOROPROPENE CARBON DISULFIDE 17U 170 BROMOFORM 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 17U 170 METHYL ISOBUTYL KETONE 170 METHYL BUTYL KETONE 170 1,1-DICHLOROETHANE 17U 1,2-DICHLOROETHENE (TOTAL) TETRACHLOROETHENE (TETRACHLOROETHYLENE) 170 CHLOROFORM 170 170 1,2-DICHLOROETHANE 17U 1,1,2,2-TETRACHLOROETHANE 170 TÓLÚENE 170 MÉTHYL ETHYL KETONE 170 1.1.1-TRICHLOROETHANE 17U CHLOROBENZENE CARBON TETRACHLORIDE 170 ETHYL BENZENE 17U BROMODICHLOROMETHANE 17U STYRENE TOTAL XYLENES PERCENT MOISTURE 170

REMARKS

REMARKS

FOOTNOTES

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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| EPA-REGION IV ESD, ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | ** SAS NO.: D. NO.: CL60 *** * * * * * * * * * * * * * * * * * | 1400UJ 3-NITROANILINE |
|----------------------------------|--|---|---|
| EXTRACTABLE OPGANICS DATA REPORT | PROJECT NO. 92-0331 SAMPLE NO. 65466 SOURCE: SIMMONS CASKET CO STATION ID: SD-04 | CASE NO.: 17847 * * * * * * * * * * * * * * * * * * * | PHENOL BIS(2-CHLOROBE 1,3-DICHLOROBE 1,2-DICHLOROBE 1,2-DICHLOROBE 2,2'-CHLOROBE 2,4-DICHLOROBE 1,2-J-N 1,2'-DICHLOROBE 2,4-DICHLOROBE 1,2'-DICHLOROBE 1,2'-DICHLOROBE 1,2'-DIMETHYLPH BIS(2-CHLOROBE 1,2'-DIMETHYLPH PEXACHLOROBILIA 1,2'-DICHLOROBE 1,2'-DIC |
| FXTBACTA | *** *** PRO *** SOU | * | 20044444444444444444444444444444444444 |

REMARKS

REMARKS
EXCESSIVE HOLDING TIME

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD * * SOURCE: SIMMONS CASKET CO STATION ID: SD-04 CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1450 STOP: 00/00/00
D. NO.: CL60 MD NO: CL60 * * ** ** ** CASE.NO.: 17847 ** ** SAS NO.: ** **

ANALYTICAL RESULTS UG/KG

COMPOUND

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI~INTERFERENCES *J-ESTIMATED VALUE *N~PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

* * * UG/KG * ALPHA-BHC
BETA-BHC
DELTA-BHC
GAMMA-BHC (LINDANE)
HEPTACHLOR
ALDRIN
HEPTACHLOR EPOXIDE
HEPTACHLOR (ALPHA)
DIELDRIN
DIELDRIN
ENDOSULFAN I (BETA)
4.4'-DDD (P,P'-DDD)
ENDOSULFAN SULFATE
4,4'-DDT (P,P'-DDT) * * * * SAS * * * * * NO. 65466 NUMBER SAMPLE TYPE: SOIL 5.50 5.50 UG/KG * * * * * * * * * 1 STOP: 00/00/00

METHOXYCHLOR
ENDRIN KETONE
ENDRIN ALDEHYDE
CHLORDANE (TECH. M)
GAMMA-CHLORDANE
ALPHA-CHLORDANE
TOXAPHENE
PCB-1221 (AROCLOR
PCB-1232 (AROCLOR
PCB-1242 (AROCLOR
PCB-1248 (AROCLOR
PCB-1254 (AROCLOR
PCB-1254 (AROCLOR
PCB-1254 (AROCLOR
PCB-1260 (AROCLOR
PCB-1260 (AROCLOR
PCB-1260 (AROCLOR
PCB-1260 (AROCLOR
PCB-1260 (AROCLOR
PCB-1260 (AROCLOR MIXTURE)
/2
/2 1016) 1221) 1232) 1242) 1248) 1254) 1260)

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE

*K-ACTUAL VALUE

*U-MATERIAL WAS A

*R-QC INDICATES T

*C-CONFIRMED BY G *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEGGEMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

NECESSARY

FOR

VERIFICATION

OF PRESENCE GIVEN

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MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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METALS DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65462 SAMPLE TYPE: SOIL

SOURCE: SIMMONS CASKET CO STATION ID: SS-01

CASE NUMBER: 17847

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 0940 STOP: 00/00/00

ANALYTICAL RESULTS

MD NUMBER: CL56

MG/KG

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ANALYTICAL RESULTS

MG/KG SE 0.13U MERCURY 5.3UJ SELENIUM 1.4UJ SILVER THALLIUM 0.530

NA TIN

PERCENT MOISTURE

8.4UR ANTIMONY CADMILL

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

> RESULTS UNITS PARAMETER 6.9U MG/KG CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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METALS DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL

SOURCE: SIMMONS CASKET CO

STATION ID: SS-02 CASE NUMBER: 17847

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1525 STOP: 00/00/00

MD NUMBER: CL61

ANALYTICAL RESULTS

MG/KG

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ANALYTICAL RESULTS

ANTIMONY 8. 7UR

MG/KG 0.120 MERCURY SELENIUM SILVER 1.1UJ 1.4UJ THALLIUM 0.550 ŇΑ TIN PERCENT MOISTURE

REMARKS

FOOTNOTES

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REMARKS

2 ?

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

04/02/92

** PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL

** SOURCE: SIMMONS CASKET CO

** STATION ID: S5-02

** CASE.NO.: 17847 SAS NO.:

** PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL

** COLLECTION START: 02/26/92 1525 STOP: 00/00/00

** COLLECTION START: 02/26/92 1525 STOP: 00/00/00

** ** ** ***

RESULTS UNITS PARAMETER 6.9U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

ANALYTICAL RESULTS

METALS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL

ANALYTICAL RESULTS

SOURCE: SIMMONS CASKET CO STATION ID: SS-03 CASE NUMBER: 17847

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1630 STOP: 00/00/00

MD NUMBER: CL62

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MG/KG . 6UR ANTIMONY CADMIUM

MG/KG 0.130 MERCURY SELENIUM 1.2UJ SILVER 0.490 THALLIUM NA TIN PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

SPECIFIED ANALYSIS DATA REPORT PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD * * SOURCE: SIMMONS CASKET CO STATION ID: SS-03 CASE.NO.: 17847 CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1630 STOP: 00/00/00

D. NO.: CL62 MD NO: CL62 ** ** ** ** ** SAS NO.: ** ** ** * ***

> RESULTS UNITS PARAMETER 6.4U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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METALS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL

ANALYTICAL RESULTS

SOURCE: SIMMONS CASKET CO

STATION ID: SS-04 CASE NUMBER: 17847

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1705 STOP: 00/00/00 MD NUMBER: CL63

ANALYTICAL RESULTS

MG/KG ANTIMONY . SUR 100001-0000 CADMIUM

MG/KG MERCURY σ . 11 μ SELENIUM 4.7UJ 1.303 SILVER 0.470 THALLIUM NA TIN <u>VANADIUM</u> 20U 21 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

SPECIFIED ANALYSIS DATA REPORT * *** PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD ** SOURCE: SIMMONS CASKET CO STATION ID: SS-04 CASE.NO.: 17847 CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1705 STOP: 00/00/00
D. NO.: CL63 MD NO: CL63 ** ** ** ** SAS NO.: ** * * * *

> RESULTS UNITS PARAMETER 6.1U MG/KG CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

0.49U

THALLIUM IIN

PERCENT MOISTURE

04/02/92

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PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY PROJECT NO. 92-0331 SAMPLE NO. 65470 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO CITY: LANCASTER COLLECTION START: 02/26/92 1755 STOP: 00/00/00 STATION ID: SS-05 CASE NUMBER: 17847 SAS NUMBER: MD NUMBER: CL64 ** ** ANALYTICAL RESULTS MG/KG ANALYTICAL RESULTS MG/KG ANTIMONY MERCURY . 6UR 0.13U 0.98UJ SELENIUM CADMIUM 1.2UJ SILVER

REMARKS

METALS DATA REPORT

REMARKS

FOOTNOTES *A-AVERAGE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

SPECIFIED ANALYSIS DATA REPORT PROJECT NO. 92-0331 SAMPLE NO. 65470 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-05 CASE.NO.: PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1755 STOP: 00/00/00 D. NO.: CL64 MD NO: CL64 ** ** ** ** ** ** ** ** * ***

> RESULTS UNITS PARAMETER 6.3U MG/KG CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

04/02/92

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METALS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL

ANALYTICAL RESULTS

SOURCE: SIMMONS CASKET CO

STATION ID: SS-06 CASE NUMBER: 17847

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1820 STOP: 00/00/00

MD NUMBER: CL65

ANALYTICAL RESULTS

MG/KG ANTIMONY 7.4UR CADMIUM -

MG/KG MERCURY טוו.ט KEL SELENIUM 4.90J 1.2UJ SILVER 0.490 THALLIUM NA TIN PERCENT MOISTURE 21

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

SPECIFIED ANALYSIS DATA REPORT PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1820 STOP: 00/00/00 D. NO.: CL65 MD NO: CL65 PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-06 CASE.NO.: 17847 SAS NO.: ** ** ** ** ** ** ** ** ** * ***

> RESULTS UNITS PARAMETER 6.1U MG/KG CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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METALS DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65472 SAMPLE TYPE: SOIL

ANALYTICAL RESULTS

SOURCE: SIMMONS CASKET CO

STATION ID: SS-07 CASE NUMBER: 17847

MAGNESIUM

SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: B STAFFORD

ŠŤ: KÝ CITY: LANCASTER

COLLECTION START: 02/27/92 1900 STOP: 00/00/00

MD NUMBER: CL54

ANALYTICAL RESULTS

| MU | /NU |
|----------------|----------------------|
| 6.40 | ANTIMONY |
| | C |
| 0.210 0.210 | BERYLLIUM CADMIUM |
| 190 | CALCIUM |
| 0.620 | COBALT |
| 7 | R |
| | |

MG/KG 0.110 MEROURA 0.830 NICKEL 0.85U SELENIUM SILVER 111 0.430 THALLIUM IIN

PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65472 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-07

CITY: LANCASTER ST: KY
COLLECTION START: 02/27/92 1900 STOP: 00/00/00
D. NO.: CL54 MD NO: CL54 * * CASE . NO .: 17847 SAS NO.: ** **

> RESULTS UNITS PARAMETER 5.5U MG/KG CYANIDE

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

| DHDGEARI | E ORGANICS DATA REPORT | TA REGION IV ESD, ATTIENS, | VA. | 04, 10, 32 |
|--|--|---|---|-------------------------|
| *** * * ** PRO ** SOU | JECT NO. 92-0331 SAMPLE NO. 65462 SAMPLE TRICE: SIMMONS CASKET CO | CITY: LAN | I: NSF COLLECTED BY: B STAFFORD ICASTER ST: KY IN START: 02/26/92 0940 STOP: 0 | ** |
| | SE NO.: 17847 SAS NO | D. NO.: | CL56 | ** |
| *** | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | ANALYTICAL RESULTS | * * * * * * * * * * * * |
| 14U 14U 14U 30U 14U 14U 14U 14U 14U 14U 14U 14U | VINYL CHLORIDE CHLOROETHANE CHLOROETHANE METHYLENE CHLORIDE ACETONE CARBON DISULFIDE 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 1,1-DICHLOROETHENE 1,2-DICHLOROETHENE (TOTAL) CHLOROFORM 1,2-DICHLOROETHANE METHYL ETHYL KETONE 1,1-TRICHLOROETHANE CARBON TETRACHLORIDE | 14U CÏS 14U TRI 14U DIB 14U 1.1 14U BEN 14U TRA 14U MET 14U MET 14U TET 14U TOL 14U CHL 14U CHL 14U TOL | Z-DICHLOROPROPANE Z-1,3-DICHLOROPROPENE CHLOROETHENE (TRICHLOROETHYLENE) ROMOCHLOROMETHANE Z-TRICHLOROETHANE Z-TRICHLOROETHANE ZENE NS-1,3-DICHLOROPROPENE MOFORM HYL ISOBUTYL KETONE HYL BUTYL KETONE RACHLOROETHENE (TETRACHLOROETHYLEN Z-TETRACHLOROETHANE UENE OROBENZENE YE BENZENE KENE AL XYLENES RCENT MOISTURE | E) |

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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| EXTRACTABLE ORGANICS DATA REPORT | D, ATHENS, GA | | 94/1 |
|--|------------------------------------|---|------|
| * * * * * * * * * * * * * * * * * * * | PROG EL CITY: L COLLECT | * * * * * * * * * * * * * * * * * * * | * |
| ** CASE NO.: 17847 *** * * * * * * * * * * * * * * * * * | D. NO. * * * * UG/KG |).: CL56 * * * * * * * * * * * * * * * * * * * | * |
| 440UJ PHENOL 440UJ BIS(2-CHLOROETHYL) ETHER 440UJ 2-CHIOROPHFNOI. | 11000JJ 4400JJ 200JJ | 3-NITROANILINE ACENAPHTHENE 2.4-DINITROPHENOL | |
| 4400J 1, 3-DICHLOROBENZENE 4400J 1, 4-DICHLOROBENZENE 4400J 1, 4-DICHLOROBENZENE | 440UJ | -NITROPHENOL I BRIZOFURÂN 1 BRIZOFURÂN | |
| 4400J - Z-DICHLOROBENZENE 4400J - Z-METHYLPHENOL 4400J 2: 2'-CHLOROISOPROPYLETHER | 440003 440003 40003 | I ETHYL PHTHATE TETHYL PHTHATE CHLOROPHENYL PHENYL ETHER | |
| 440UJ (3-AND/OR 4-)METHYLPHENOL 440UJ N-NITROSODIL-N-PROPYLAMINE 747UJ LEVACUJ ODGETUANE | 4400J | LUORENE NITROBANILINE | |
| 4400J NI TROBENZENE 4400J I SOPHORONE | 244 20044 20004 20004 | -NITROSODÍPHENYLAMINE DIPHENYLAMINE -BROMOPHENYL PHENYL ETHER | |
| 440UJ 2-NITROPHENOL 440UJ 2-4-DIMETHYLPHENOL 440UJ BIECAJCHI OBOSTILOVVV METUANIE | 1100UJ 1100UJ | EXACHLOROBENZENE (HCB) ETTACHLOROPHENOL HENANTHIPENE | |
| 4400J 2,4-DICHLOROPHENOL 4400J 2,4-DICHLOROPHENOL 4400J 1,2-4-TRICHLOROBENZENE | 440UJ 440UJ | THE STATE OF THE S | |
| 440UJ NAPHTHALENE 440UJ H-CHLOROANILINE 440UJ H-CKOROANILIANE | 0440UJ | 11—N—BUTYLPHTHALATE SUBENIE OF THE SUBERIES OF | |
| HEXACHLOROBUIADIENE 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE | 44003 44003 44003 | FINENC FINENC 33'-DICHLOROBENZIDINE | |
| 440UJ HEXACHLOROCYCLOPENTADIENE (HCCP) 440UJ 2,4,6-TRICHLOROPHENOL | 440UJ B | JENZO(A)ANTHRACENE HRYSENE | |
| 1100UJ 2,4,5-TRICHLOROPHENOL 440UJ 2-CHLORONAPHTHALENE 1100UJ 2-NITROANTIINF | 440UJ 440UJ 60UJ | IIS(2-ETHYLHEXYL) PHTHALATE II-N-OCTYLPHTHALATE FRZOCR AND/OR K)FI !!ORANTHENF | |
| 44000 DIMETHYL PHTHALATE 44000 ACENAPHTHYLENE 4400J 2.6-DINITROTOLUENE | 440003 440003 10003 10003 | ENZO-A-PYRÉNE NDENO (1,2,3-CD) PYRENE IBENZO(A,H)ANTHRACENE | |
| | 440UJ B 26 P | IENZO(GHI)PERVLENE FERCENT MOISTURE | |

REMARKS

REMARKS
EXCESSIVE HOLDING TIME

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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FOR VERIFICATION MATERIAL

REMARKS

REMARKS

FOOTNOTES *FO-DINOTES***

*A-AVERAGE VALUE *NA→NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

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EXTRACTABLE ORGANICS DATA REPORT
PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
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                                                                  COLLECTION START: 02/26/92 1525 STOP: 00/00/00
    STATION ID: SS-02
                                                                                                                          **
                                                                                                                          **
   CASE NO.: 17847
                                           SAS NO.:
                                                                 D. NO.: CL61
                                                                                                                          **
   ANALYTICAL RESULTS
                                                                 UG/KG ANALYTICAL RESULTS
                                                                1200UJ 3-NITROANILINE
        BIS(2-CHLOROETHYL) ETHER
2-CHLOROPHENOL
   490UJ
                                                                 490UJ ACENAPHTHENE
   490UJ
                                                                 1200UJ 2.4-DINITROPHENOL
  490UJ
         1,3-DICHLOROBENZENE
                                                                 1200UJ 4-NITROPHENOL
        1.4-DICHLOROBENZENE
1.2-DICHLOROBENZENE
  490UJ
                                                                 490UJ
                                                                        DIBENZOFURAN
   490UJ
                                                                 490UJ
                                                                        2,4-DINITROTOLUENE
                                                                 490UJ DIETHYL PHTHALATE
   490UJ 2,2'-CHLOROISOPROPYLETHER
                                                                 490UJ
                                                                        4-CHLOROPHENYL PHENYL ETHER
                                                                 490UJ FLUORENE
   490UJ N-NITROSODI-N-PROPYLAMINE
                                                                 490UJ
                                                                        4-NITROANILINE
                                                                 490UJ 2-METHYL-4,6-DINITROPHENOL
490UJ N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
   490UJ HEXACHLOROETHANE
   490UJ NITROBENZENE
                                                                 490UJ 4-BROMOPHENYL PHENYL ETHER
1200UJ HEXACHLOROBENZENE (HCB)
  490UJ ISOPHORONE
         2-NITROPHENOL
   490UJ
         2,4-DIMETHYLPHENOL
   490UJ
         BIS(2-CHLOROETHOXY) METHANE
2,4-DICHLOROPHENOL
   490UJ
   490UJ
                                                                 4900J ANTHRACENE
   490UJ
         1.2.4-TRICHLOROBENZENE
                                                                 490UJ CARBAZOLE
   490UJ
         NAPHTHALENE
                                                                    TO THE PARTY OF
         4-CHLOROANILINE
   490UJ
        HEXACHLOROBUTADIENE
4-CHLORO-3-METHYLPHENOL
  490UJ
                                                                 490UJ BENZYL BUTYL PHTHALATE
   490UJ
         2-METHYLNAPHTHALENE
   490UJ
        HEXACHLOROCYCLOPENTADIENE (HCCP)
2,4,6-TRICHLOROPHENOL
  490UJ
                                                                 490UJ CHRYSENÉ
  490UJ
         2.4.5-TRICHLOROPHENOL
                                                                 490UJ BIS(2-ETHYLHEXYL) PHTHALATE
  1200UJ
         2-CHLORONAPHTHALENE
  490UJ
                                                                                     ATE
  1200UJ
         2-NITROANILINE
                                                                 490UJ BENZO(B AND/OR K)FLUORANTHENE
  490UJ
        DIMETHYL PHTHALATE ACENAPHTHYLENE
                                                                 490UJ
                                                                        BENZO-A-PYRENE
                                                                       INDENO (1,2,3-CD) PYRENE
DIBENZO(A,H)ANTHRACENE
                                                                 490UJ
  490UJ
         2,6-DINITROTOLUENE
                                                                 490UJ
   490UJ
                                                                        BENZO(GHI)PÉRYLENE
                                                                 490UJ
                                                                        PERCENT MOISTURE
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REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

04/13/92

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

SAS NO.:

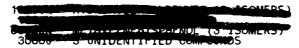
PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD SOURCE: SIMMONS CASKET CO STATION ID: SS-02 CASE.NO.: 17847

CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1525 STOP: 00/00/00

D. NO.: CL61 MD NO: CL61

ANALYTICAL RESULTS UG/KG



REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES

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*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

*

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER THE MINIMUM QUANTITATION LIMIT

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEC

*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. NECESSARY OF PRESENCE GIVEN

FOR

VERIFICATION

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MATERIAL

REMARKS

| DHD | GEABLE ORGANICS DATA REPORT | SU, ATHENS, GA. | 04/13/32 |
|-----|--|---|-------------------------------|
| *** | PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-03 | PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1630 STOP: 00/00/00 | * * * * *** ** ** ** |
| ** | CASE NO.: 17847 SAS NO.: *** *** *** *** *** *** *** *** *** * | D. NO.: CL62 ************************************ | * * * * *** |
| | 13U CHLOROMETHANE 13U BROMOMETHANE 13U VINYL CHLORIDE 13U CHLOROETHANE 30U METHYLENE CHLORIDE 13U ACETONE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,1-DICHLOROETHANE 13U 1.2-DICHLOROETHENE (TOTAL) 13U CHLOROFORM 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U METHYL ETHYL KETONE 13U 1,1,1-TRICHLOROETHANE 13U CARBON TETRACHLORIDE 13U BROMODICHLOROMETHANE | 13U 1,2-DICHLOROPROPANE 13U CIS-1,3-DICHLOROPROPENE 13U TRICHLOROETHENE(TRICHLOROETHYLENE) 13U DIBROMOCHLOROMETHANE 13U 1,1,2-TRICHLOROETHANE 13U BÉNZENE 13U TRANS-1,3-DICHLOROPROPENE 13U BROMOFORM 13U METHYL ISOBUTYL KETONE 13U METHYL BUTYL KETONE 13U TETRACHLOROETHENE(TETRACHLOROETHYLENE) 13U TOLUENE 13U CHLOROBENZENE 13U CHLOROBENZENE 13U STYRENE 13U TOTAL XYLENES 25 PERCENT MOISTURE | |

REMARKS

REMARKS

FOOTNOTES *FOUTHOUTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| 9 | * | * | | | | | | | | | | | |
|----------------------------------|---|---|---|---|--|--|--|---|---|---|--|---|--|
| VS, GA. | * * * * * * * * * * * * * * * * * * * | D.: CL62 * * * * * * * * * * * * * * * * * * * | 3-NITROANILINE ACENAPHTHENE I 2,4-DINITROPHENOL | DIBENZOFURAN 2,4-DINITROTOLUENE DIETHVI PHTHALATE | 4-CHLORDHENYL PHENYL ETHER FLUORENE | 4-NITROANILINE 2-METHYL-4,6-DINITROPHENOL N-NITROSODIPHENYLAMINE/DIPHENYLAMINE | 4-BKOMOPHENYL PHENYL ETHEK HEXACHLOROBENZENE (HCB) PENTACHLOROPHENOL | PHENANTHRENE ANTHRACENE CARBAZOLE | DI-N-BUTYLPHTHALATE FLUORANTHENE DYDENE | BENZYL BUTYL PHTHALATE 3.3'-DICHLOROBENZIDINE BENZO(A)ANTHRACENE | CHRYSENE BIS(2-ETHYLHEXYL) PHTHALATE DI-N-OCTYLPHTHALATE | BENZO(B AND/OR K)FLUORANTHENE BENZO-A-PYRENE INDENO (1,2,3-CD) PYRENE DIBENZO(A,H)ANTHRACENE | BENZO(GHI)PÉRYLENE PERCENT MOISTURE |
| ESD, ATHENS, | PROG E CITY: COLLEC | D. NO * * * * UG/KG | 1400UJ | 44000 44000 54000 | 4400UJ | 44000 1000 1000 1000 1000 | 10001 10001 | 44400 4400 4400 7000 | 440 440 50044 5005 | 444044 4400UJ | 4400 440 440 500 500 500 500 500 | 4440 4400 4400 500 500 500 500 500 500 5 | 4400J 25 |
| EPA-REGION IV E | * * * * * * * * * * * * * * * * * * * | SAS NO.: | | | | | | | | | | | |
| | * * * * . 65468 | * * * * * RESULTS | | | | | | ш | | (HCCP) | | | |
| EXTRACTABLE ORGANICS DATA REPORT | F # # # # # # # # # # # # # # # # # # # | * * * * * * * * * * * * * * * * * * * | BIS(2-CHLOROETHYL) ETHER J 2-CHLOROPHENOL 1 3-DICHIOROPENZENE | 1,4-DICHLOROBENZENE 1,2-DICHLOROBENZENE 2-MFTHKI BHENDI | 2,2'-CHLOROISOPROPYLETHER (3-AND/OR 4-)METHYLPHENOL | N-NITROSODI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE | ISOPHORONE 2-NITROPHENOL 2.4-DIMETHYLPHENOL | | | 4-CHLORO-3-METHYLPHENOL 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE | | | |
| FXTRACT/ | * * * * * * * * * * * * * * * * * * * | * | 4400U | 44 4 00044 00044 | 440UJ | 4400J 440UJ 440UJ | 44000 44000 44000 50005 | 4 4 4 4 4 0 U J 4 4 0 U J | 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 444 440UJ 10044 | 1100UJ 440UJ 440UJ | 1100U1 440UJ 1440UJ | |

REMARKS EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*V-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD

SOURCE: SIMMONS CASKET CO STATION ID: SS-03 CASE.NO.: 17847

SAS NO.:

CITY: LANCASTER
COLLECTION START: 02/26/92 1630 STOP: 00/00/00
D. NO.: CL62 MD NO: CL62

ANALYTICAL RESULTS UG/KG

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES

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*FOUNDIES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| EPA-REGION IV ESD, ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | . * * * * * * * * * * * * * * * * * * * | 220 METHOXYCHLOR 4.40 ENDRIN KETONE 4.40 ENDRIN ALDEHYDE CHLORDANE (12 CHLORDANE /2 |
|---------------------------------|---|---|--|
| DESTICIDES /DCB / S DATA REDURT | *** PROJECT NO. 92-0331 SAMPLE NO. 65468 SAN ** SOURCE: SIMMONS CASKET CO ** STATION ID: 55-03 ** CASE NUMBER: 17847 SAS NUMBER: | *** * * * * * * * * * * * * * * * * * | 2.2U ALPHA-BHC 2.2U BETA-BHC 2.2U GAMMA-BHC 2.2U HEPTACHLOR 2.2U HEPTACHLOR 2.2U HEPTACHLOR 2.2U HEPTACHLOR EPOXIDE 2.2U HEPTACHLOR EPOXIDE 2.2U HEPTACHLOR EPOXIDE 4.4U ENDOSULFAN I (ALPHA) 4.4U ENDRIN 4.4U ENDOSULFAN II (BETA) 4.4U ENDOSULFAN II (BETA) 4.4U ENDOSULFAN II (BETA) 4.4U ENDOSULFAN II (BETA) 4.4U ENDOSULFAN SULFATE 4.4U 4.4'-DDI (P.P'-DDI) |

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
**A-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS

| ## PROJECT NO. 92–0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL | DUBCE | | A-REGION IV ESD, AT | HENS, GA. | 04/13/92 |
|--|-------|----------------------------|---------------------------------------|-------------------------------|---|
| ## PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL ## SOURCE: SIMMONS CASKET CO | PURGE | | | | |
| ## SOURCE: SIMMONS CASKET CO ## STATION ID: SS-04 ## COLLECTION START: 02/26/92 1705 STOP: 00/00/00 ## ## CASE NO.: 17847 SAS NO.: D. NO.: CL63 ## UG/KG ANALYTICAL RESULTS ## UG/KG ANALYTICAL RESULTS ## UG/KG ANALYTICAL RESULTS ## 13U CHLOROMETHANE ## 13U PROMOMETHANE ## 13U VINYL CHLORIDE ## 13U VINYL CHLORIDE ## 13U CHLOROETHANE ## 13U ACETONE ## 13U ACETONE ## 13U ACETONE ## 13U L.1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) ## 13U L.1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) ## 13U L.1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) ## 13U L.2-DICHLOROETHENE(1,1-DICHLOROETHYLENE) ## 13U L.2-DICHLOROETHENE(TETRACHLOROETHYLENE) ## 13U L.2-DICHLOROETHENE(TETRACHLOROETHYLENE) ## 13U L.2-DICHLOROETHENE(TETRACHLOROETHYLENE) ## 13U L.2-DICHLOROETHANE ## 13U L.2-DICHLOROETHA | ** | | PE: SOIL PRO | G ELEM: NSF COLLECTED BY: | |
| *** CASE NO.: 17847 SAS NO.: D. NO.: CL63 *** UG/KG ANALYTICAL RESULTS 13U CHLOROMETHANE 13U BROMOMETHANE 13U BROMOMETHANE 13U VINYL CHLORIDE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CARBON DISULFIDE 13U CARBON DISULFIDE 13U CARBON DISULFIDE 13U CARBON DISULFIDE 13U 1.1-DICHLOROETHENE(1.1-DICHLOROETHYLENE) 13U 1.2-DICHLOROETHENE (1.1-DICHLOROETHYLENE) 13U 1.2-DICHLOROETHANE 13U 1.2-DICHLOROETHANE 13U 1.2-DICHLOROETHANE 13U 1.1-TRICHLOROETHANE 13U 1.1-TRICHLOROETHANE 13U 1.1-TRICHLOROETHANE 13U 1.1-TRICHLOROETHANE 13U 1.1-TRICHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE | ** | SOURCE: SIMMONS CASKET CO | CIT | | |
| ** CASE NO.: 17847 | | STATION ID: SS-04 | COL | LECTION START: 02/26/92 17 | |
| UG/KG ANALYTICAL RESULTS 13U CHLOROMETHANE 13U BROMOMETHANE 13U CIS-1, 3-DICHLOROPROPANE 13U VINYL CHLORIDE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U METHYL BUTYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U CARBON TETRACHLOROETHANE 13U CHLOROFORM 13U CHLOROFORM 13U CHLOROETHANE | | CASE NO · 17847 SAS NO · | · n | NO : CL63 | |
| CHLOROMETHANE BROMOMETHANE 13U BROMOMETHANE 13U VINYL CHLORIDE 13U VINYL CHLORIDE 13U CHLOROETHANE 13U DIBROMOCHLOROMETHANE 13U 1, 1, 2-TRICHLOROETHANE 13U 1, 1, 2-TRICHLOROETHANE 13U 1, 1-DICHLOROETHENE(1, 1-DICHLOROETHYLENE) 13U 1, 1-DICHLOROETHENE(1, 1-DICHLOROETHYLENE) 13U 1, 1-DICHLOROETHANE 13U 1, 2-DICHLOROETHENE (TOTAL) 13U 1, 2-DICHLOROETHANE 13U 1, 1, 2-TETRACHLOROETHANE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U TOLUENE 13U CARBON TETRACHLOROETHANE 13U CHLOROBENZENE 13U CHLOROBENZENE 13U CHLOROBENZENE | | 5 | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * | * |
| 13U BROMOMETHANE 13U VINYL CHLORIDE 13U VINYL CHLOROETHENE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CARBON DISULFIDE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHENE (TOTAL) 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U CHLOROFORM 13U CHLOROETHANE 13U CHLOROFORM 13U TETRACHLOROETHENE (TOTAL) 13U METHYL BUTYL KETONE 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U TETRACHLOROETHANE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLOROETHANE | U | IG/KG ANALYTICAL RESULTS | UG/K | G ANALYTICAL | RESULTS |
| 13U VINYL CHLORIDE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U CHLOROETHANE 13U ACETONE 13U CARBON DISULFIDE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,2-DICHLOROETHENE 13U 1,2-DICHLOROETHENE 13U 1,2-DICHLOROETHENE 13U CHLOROFORM 13U CHLOROFORM 13U CHLOROFORM 13U TETRACHLOROETHENE 13U TETRACHLOROETHENE 13U TETRACHLOROETHANE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U TOLUENE 13U CARBON TETRACHLOROETHANE | | | | | |
| 13U CHLOROETHANE 70U METHYLENE CHLORIDE 13U ACETONE 13U CARBON DISULFIDE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,1-DICHLOROETHANE 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHENE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,1-TRICHLOROETHANE 13U METHYL ETHYL KETONE 13U TOLUENE 13U 1,1,1-TRICHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE | | | | | OFTINI FNE) |
| 70Û METHYLÊNE CHLORIDE 13U ACETONE 13U ACETONE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHENE (TOTAL) 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U METHYL ETRACHLOROETHENE (TETRACHLOROETHYLENE) 13U 1,2-DICHLOROETHANE 13U METHYL ETRACHLOROETHANE 13U METHYL ETRACHLOROETHANE 13U METHYL ETRACHLOROETHANE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE | | | | | OE (HYLENE) |
| 13U ACETONÉ 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U MÉTHYL ETHYL KETONE 13U TETRACHLOROETHANE 13U TOLUENE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLOROETHANE | | | | | |
| 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,1-DICHLOROETHANE 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHENE (TOTAL) 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U 1,1,1-TRICHLOROETHANE 13U 1,1,1-TRICHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE 13U ETHYL BENZENE | | | | | |
| 13U 1,1-DICHLOROETHANE 13U 1,2-DICHLOROETHENE (TOTAL) 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U METHYL ETHYL KETONE 13U TOLUENE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE 13U ETHYL BENZENE | | | | | Ε |
| 13Û 1.2-DÎCHLOROETHENE (TOTAL) 13U CHLOROFORM 13U 1,2-DÎCHLOROETHANE 13U 1,2-DÎCHLOROETHANE 13U METHYL ETYL KETONE 13U 1,1,2-TETRACHLOROETHANE 13U METHYL ETYL KETONE 13U 1,1,2-TETRACHLOROETHANE 13U TOLUENE 13U CARBON TETRACHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE | | | | | |
| 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U MÉTHYL ETHYL KETONE 13U 1,1,1-TRICHLOROETHANE 13U 1,1,1-TRICHLOROETHANE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE 13U CHLOROBENZENE | | | | | |
| 13U 1,2-DICHLOROETHANE 13U METHYL ETHYL KETONE 13U 1,1,1-TRICHLOROETHANE 13U 1,1,1-TRICHLOROETHANE 13U CHLOROBENZENE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE 13U CARBON TETRACHLORIDE | | | | | HI OROFTHVI ENF) |
| 13U MÉTHYL ETHYL KETONE 13U TÖLÜÉNE 13U 1,1,1-TRICHLOROETHANE 13U CHLOROBENZENE 13U CARBON TETRACHLORIDE 13U ETHYL BENZENE | | | | | |
| 13U 1,1,1-TRICHLOROETHANE 13U CHLOROBENZENE 13U CARBON TETRACHLORIDE 13U ETHYL BENZENE | | 13U METHYL ETHYL KETONE | 13 | U TÓLÚENE | _ |
| | | 13U 1,1,1-TRICHLOROETHANE | | | |
| 13H DOMODICH ODOMETHANE | | | | | |
| 13U BROMODICHLOROMETHANE 13U STYRENE 13U TOTAL XYLENES | | 130 DRUMUDICHLURUME I HANE | | | |
| 23 PERCENT MOISTURE | | | | | |

REMARKS ***REMARKS***

FOOTNOTES

^{*}COTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| EPA-KEGIUN IV ESD, ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | D. NO.: CL63 ************************************ | 1100UJ 3-NITROANILINE 430UJ ACENAPHTHENE 1100UJ 2-4-DINITROPHENOL 1100UJ 2-4-DINITROPHENOL 430UJ DIBENZOFIBRAN 430UJ DIETHYL PHTHALATE 430UJ 4-NITROANILINE 1100UJ 4-NITROANILINE 1100UJ 4-NITROANILINE 1100UJ 4-NITROANILINE 1100UJ 4-NITROANILINE 1100UJ A-NITROANILINE 1100UJ A-NITROANILINE 1100UJ A-NITROANILINE 1100UJ A-NITROANILINE 1100UJ A-NITROANILINE 1100UJ PENTACHLOROPHENOL 430UJ PHENANTHRENE 430UJ PHENANTHRENE 430UJ PHENANTHRENE 430UJ PHENANTHRENE 430UJ BENZOCA JANTHRACENE 430UJ BENZOCA JANTHRACENE 430UJ BENZOCA JANTHRACENE 430UJ BENZOCA JANTHRACENE 430UJ BENZOCA AJANTHRACENE 430UJ BENZOCA AJANTHRACENE 430UJ BENZOCA HJANTHRACENE 430UJ BENZOCA HJANTHRACENE 430UJ BENZOCA HJANTHRACENE 430UJ BENZOCA HJANTHRACENE 523 PERCENT WOLSTURE |
|----------------------------------|---------------------------------------|---|--|
| EYARACTARIF ORGANICS DATA REPORT | * * * * * * * * * * * * * * * * * * * | ** CASE NO.: 17847 *** * * * * * * * * * * * * * * * * * | 430UJ BIS (2-CHLOROETHYL) ETHER 430UJ BIS (2-CHLOROBENZENE 430UJ 1.3-DICHLOROBENZENE 430UJ 1.4-DICHLOROBENZENE 430UJ 2.2-MCHINCOBENZENE 430UJ 2.2-CHLOROBENZENE 430UJ 2.2-CHLOROISOPROPYLETHER 430UJ 2.2-CHLOROISOPROPYLETHER 430UJ 2.2-CHLOROETHANE 430UJ 1.2-DICHLOROETHANE 430UJ 2.4-DIMETHYLPHENOL 430UJ 2.4-DIMETHYLPHENOL 430UJ 2.4-DIMETHYLPHENOL 430UJ 2.4-DIMETHYLPHENOL 430UJ 2.4-DICHLOROBENZENE 430UJ 1.2-TRICHLOROBENZENE 430UJ 1.2-METHYLPHENE 430UJ 2.4-DICHLOROPHENOL 430UJ 2.4-DICHLOROPHENOL 430UJ 2.4-S-TRICHLOROPHENOL |

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER

ST: KY COLLECTION START: 02/26/92 1705 STOP: 00/00/00

SOURCE: SIMMONS CASKET CO STATION ID: SS-04 ** CASE.NO.: 17847 **

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SAS NO.:

D. NO.: CL63

MD NO: CL63

ANALYTICAL RESULTS UG/KG

20 ----900N ... -----

FOOTNOTES

^{*}NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE *NA-NOT ANALYZED

^{*}K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETI

*R-QC INDICATES THAT DATA UNUSABLE. COMPO

*C-CONFIRMED BY GCMS

*NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE I VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE ECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEW HEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. NECESSARY OF PRESENCE GIVEN FOR VERIFICATION 윾 MATERIAL

PURGEABLE ORGANICS DATA REPORT PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1755 STOP: 00/00/00 PROJECT NO. 92~0331 SAMPLE NO. 65470 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS~05 ** ** ** * * ** CASE NO.: 17847 SAS NO.: D. NO.: CL64 ** UG/KG UG/KG ANALYTICAL RESULTS ANALYTICAL RESULTS 13U 1,2-DICHLOROPROPANE 13U CHLOROMETHANE 13U CÍS-1,3-DICHLOROPROPENE 13U TRICHLOROETHENE (TRICHLOROETHYLENE) 130 BROMOMETHANE VINYL CHLORIDE 130 CHLOROETHANE DIBROMOCHLOROMETHANE 130 130 70U METHYLENE CHLORIDE 130 1,1,2-TRICHLOROETHANE 130 ACETONE 13U BENZENE 13U CARBON DISULFIDE 13U TRANS-1, 3-DICHLOROPROPENE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U BROMOFORM 13U 1,1-DICHLOROETHANE 130 METHYL ISOBUTYL KETONE 130 METHYL BUTYL KETONE 130 TETRACHLOROETHENE (TETRACHLOROETHYLENE) 13U 1.2-DICHLOROETHENE (TOTAL) 13U CHLOROFORM 1,2-DICHLOROETHANE 1,1,2,2-TETRACHLOROETHANE 130 130 130 MÉTHYL ETHYL KETONE 130 TÓLÚENE 130 1,1,1-TRICHLOROETHANE 13U CHLOROBENZENE CARBON TETRACHLORIDE 130 13U ETHYL BENZENE BROMODICHLOROMETHANE 13U STYRENE 130 TOTAL XYLENES 22 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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UG/KG
                                                                                                                                                                                                                                                                                                                                                 CASE NO.:
                2.4-DIMETHYLPHENOL
2.4-DIMETHYLPHENOL
BIS(2-CHLOROPIENOY) METHANE
BIS(2-CHLOROPHENOY)
2.4-DICHLOROPHENOL
1,2,4-TRICHLOROBENZENE
1,2,4-TRICHLOROBENZENE
1,2,4-TRICHLOROBUTADIENE
4-CHLOROBUTADIENE
4-CHLORO-3-METHYLPHENOL
2-METHYLNAPHTHALENE
1-XACHLOROCYCLOROPHENOL
2-4,6-TRICHLOROPHENOL
2-4,5-TRICHLOROPHENOL
2-1,5-TRICHLOROPHENOL
2-NITROANILINE
2-NITROANILINE
DIMETHYL PHTHALATE
ACENAPHTHYLENE
2,6-DINITROTOLUENE
                                                                                                                                                                                           N-NITROSODI-N-PROPYLAMINE
HEXACHLOROETHANE
NITROBENZENE
ISOPHORONE
                                                                                                                                                                                                                                                                                                        BIS(2-CHLOROETHYL) ETHER
                                                                                                                                                                                                                                                                 2-CHLOROPHENOL
1, 3-DICHLOROBENZENE
1, 4-DICHLOROBENZENE
1, 2-DICHLOROBENZENE
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65470
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                                                                                                                                                                                                                                                                                                                                                  * NO. *
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                                                                                                                   4-NITROANILINE
2-METHYL-4,6-DINITROPHENOL
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
4-BROMOPHENYL PHENYL ETHER
HEXACHLOROBENZENE (HCB)
PENTACHLOROPHENOL
PHENANTHRENE
ANTHRACENE
CARBAZOLE
CARBAZOLE
DI-N-BUTYLPHTHALATE
FLUORANTHENE
                                                                                                                                                                                                                                                                                                                                                          ₹
3.3'-DICHLOROBENZIDINE
BENZO(A)ANTHRACENE
CHRYSENE
BIS(2-ETHYLHEXYL) PHTHALATE
DI-N-OCTYLPHTHALATE
DENZO(B AND/OR K)FLUORANTHENE
BENZO-A-PYRENE
INDENO (1,2,3-CD) PYRENE
DIBENZO(A,H)ANTHRACENE
BENZO(GHI)PERYLENE
PERCENT MOISTURE
                                                                                                                                                                                                                                     3-NITROANILINE
ACENAPHTHENE
2,4-DINITROPHENOL
4-NITROPHENOL
DIBENZOFURAN
2,4-DINITROTOLUENE
DIETHYL PHTHALATE
4-CHLOROPHENYL PHENYL E
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REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS *K-ACTUAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. F VALUE *N-PRESUMPTIVE EVIDENCE KNOWN TO BE GREATER THAN VALUE QUANTITATION LIMIT.
RESAMPLING AND REANALYSIS IS NEO NECESSARY OF PRESENCE GIVEN FOR **VERIFICATION** 유 MATERIAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT ***

PROJECT NO. 92-0331 SAMPLE NO. 65470 SAMPLE TYPE: SOIL

SOURCE: SIMMONS CASKET CO STATION ID: SS-05 CASE.NO.: 17847

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SAS NO.:

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1755 STOP: 00/00/00 D. NO.: CL64 MD NO: CL64

ANALYTICAL RESULTS UG/KG

- CONTRADER NEUTONE

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES

*FOOTHOILS****
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEC

*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. NECESSARY OF PRESENCE GIVEN F Q **VERIFICATION** 읶 MATERIAL

| PHR | GEABLE ORGANICS DATA REPORT | ESD, ATTIENS, GA. | 04/10/32 |
|-----|---|---|---------------------------------------|
| | PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO | CITY: LANCASTER ST: KY | * * * * * * * * * * * * * * * * * * * |
| ** | STATION ID: SS-06 | COLLECTION START: 02/26/92 1820 STOP: 00/00/00 |) ** ** |
| ** | CASE NO.: 17847 SAS NO.: | D. NO.: CL65 | ** |
| *** | UG/KG ANALYTICAL RESULTS | UG/KG ANALYTICAL RESULTS | • • • • • • • • |
| | 11U CHLOROMETHANE 11U BROMOMETHANE 11U VINYL CHLORIDE 11U CHLOROETHANE 40U METHYLENE CHLORIDE 40U ACETONE 11U CARBON DISULFIDE 11U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 11U 1,1-DICHLOROETHANE 11U 1,2-DICHLOROETHENE (TOTAL) 11U 1,2-DICHLOROETHANE 11U 1,2-DICHLOROETHANE 11U METHYL ETHYL KETONE 11U 1,1-TRICHLOROETHANE 11U CARBON TETRACHLORIDE 11U BROMODICHLOROMETHANE | 11U 1,2-DICHLOROPROPANE 11U CIS-1,3-DICHLOROPROPENE 11U TRICHLOROETHENE(TRICHLOROETHYLENE) 11U DIBROMOCHLOROMETHANE 11U 1,1,2-TRICHLOROETHANE 11U BENZENE 11U TRANS-1,3-DICHLOROPROPENE 11U BROMOFORM 11U METHYL ISOBUTYL KETONE 11U METHYL BUTYL KETONE 11U TETRACHLOROETHENE(TETRACHLOROETHYLENE) 11U 1,1,2,2-TETRACHLOROETHANE 11U TOLUENE 11U CHLOROBENZENE 11U CHLOROBENZENE 11U STYRENE 11U TOTAL XYLENES 12 PERCENT MOISTURE | |

REMARKS

REMARKS

FOOTNOTES

*HO-DUTION *****
*A-AUERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

04/13/92

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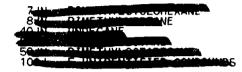
MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-06 CASE.NO.: 17847 SAS NO.:

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1820 STOP: 00/00/00 D. NO.: CL65 MD NO: CL65

** ** ** ** ***

ANALYTICAL RESULTS UG/KG



FOOTNOTES

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^{*}NAI-INTERERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE *NA-NOT ANALYZED

^{*}K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEW NECESSARY FOR **VERIFICATION** MATERIAL

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROG ELEM: NSF COLLECTED BY: B STAFFORD

PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-06 CASE.NO.: 17847 SAS NO.: CITY: LANCASTER
COLLECTION START: 02/26/92 1820 STOP: 00/00/00
D. NO.: CL65 MD NO: CL65

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ANALYTICAL RESULTS UG/KG

La Capación Cambridge - Norte Ci

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES

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*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92 * * ***

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SAMPLE AND ANALYSIS MANAGEMENT EPA-REGION IV ESD, ATHENS, GA:

| ** | * | * | * | * * * | PES1 |
|--------------------|-------------------|--------------------------|--|-------------------------|------------------------------|
| CASE NUMBER: 17847 | STATION ID: SS-06 | SOURCE: SIMMONS CASKET (| ** PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL PROG ELEM: NSF | * * * * * * * * * * * * | PESTICIDES/PCB'S DATA REPORT |
| SAS NUMBER: | | 8 | AMPLE NO. 65471 | * * * * * * * * | |
| | | | SAMPLE TYPE: SOIL | * * * * * * * * * * * | |
| | | | PROG ELEM: NSF COLLECTED BY: B STAFFORD | ********** | |

* * ₩ * * ALPHA-BHC
BETA-BHC
DELTA-BHC
GAMMA-BHC
HEPTACHLOR
EPOXIDE
ENDOSULFAN I (BETA)
ENDOSULFAN SULFATE
4,4'-DDT (P,P'-DDT)
ENDOSULFAN SULFATE
4,4'-DDT (P,P'-DDT) * # * * * 18U 3.7U 3.7U # * * UG/KG METHOXYCHLOR
ENDRIN KETONE
ENDRIN ALDEHYDE
CHLORDANE (TECH.
GAMMA-CHLORDANE
ALPHA-CHLORDANE
TOXAPHENE
PCB-1232 (AROCLOR
PCB-1232 (AROCLOR
PCB-1248 (AROCLOR
PCB-1254 (AROCLOR
PCB-1254 (AROCLOR
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REMARKS

FOOTNOTES

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*K-ACTUAL VALUE IS

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*C-CONFIRMED BY GO E *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. NECESSARY FOR VERIFICATION OF PRESENCE GIVEN 윾 MATERIAL

APPENDIX C Photo Documentation Log

UNSCANNABLE MEDIA (PHOTOGRAPHS)

B&V WASTE SCIENCE AND TECHNOLOGY CORP.

TELEPHONE MEMORANDUM

U.S. EPA Region IV Simmon's Casket Company Climate, Soil, and Private Well Information BVWST Project 52011.020 BVWST File July 14, 1992 13:35

To:

John Benson, Conservation Technician

Company:

Soil Conservation Service of Garrard County

Phone No.:

606-792-2620

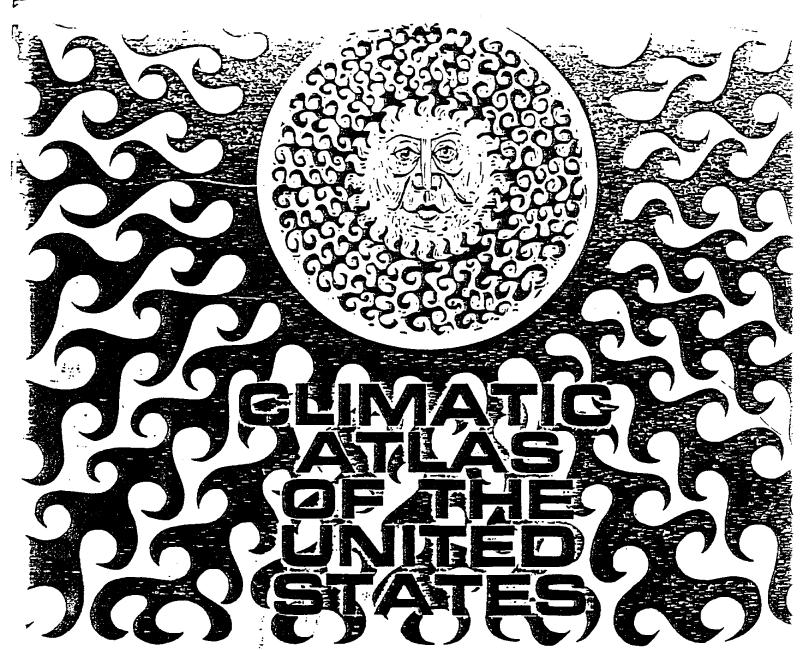
Recorded by:

Carter Helm

I spoke to Mr. Benson, the Garrard County Soil Conservation Technician, to discuss a few key issues for the area that surrounds the facility below Lancaster, Kentucky. The Nicholson silt loam is the dominant soil type beneath and around Allison Abrasives. This soil type, part of the Lowell series, is characterized by: 2 to 6% slopes, high acidity, poor drainage, good tilth, and high errodibility.

Concerning area climate, Garrard County receives a net annual rainfall of 12 to 14 inches. Winters can be extremely cold, dry and windy where snowfalls are common. Summers are hot and humid with plenty of rain showers. The heavy precipitation is important to the area since residents not utilizing a municipal system typically use a cistern for their potable water. There are few private wells in the area; however, most are no longer in use except for possible irrigation.

The land that Allison Abrasives is located on is with the 100 year flood plan.



RCE . Environmental Science Services Administration . Environmental Data Service



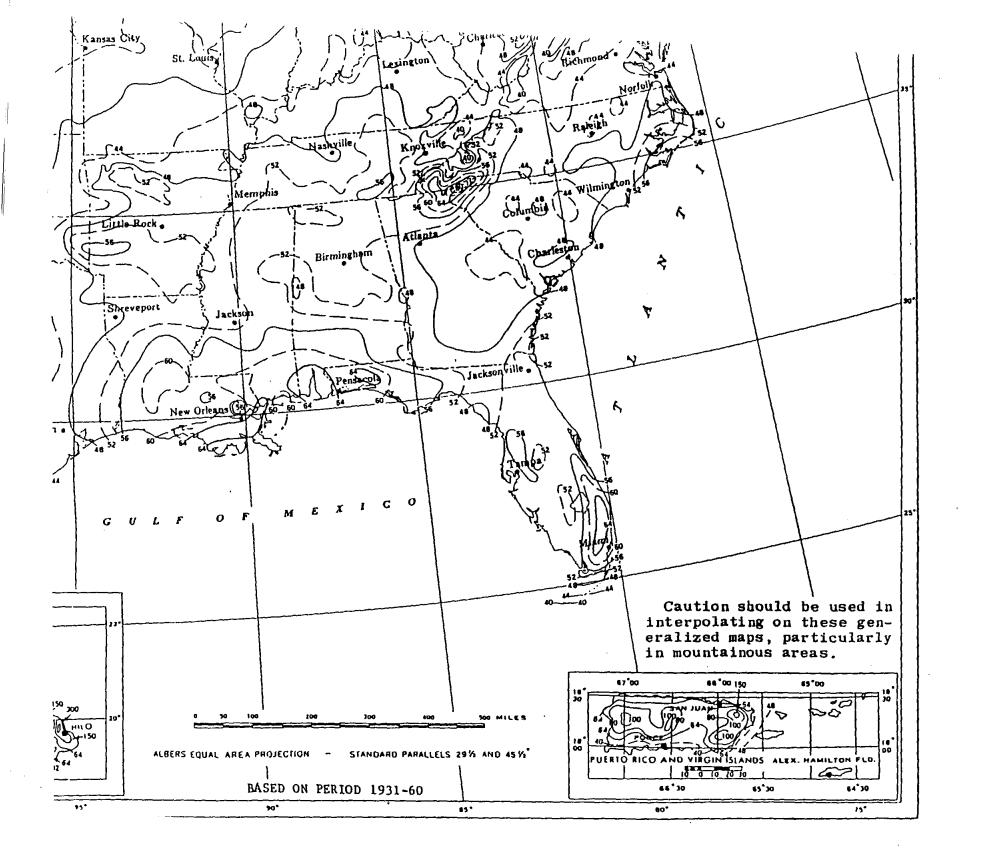
U.S. DEPARTMENT OF COMMERCE C. R. Smith, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION Robert M. White, Administrator

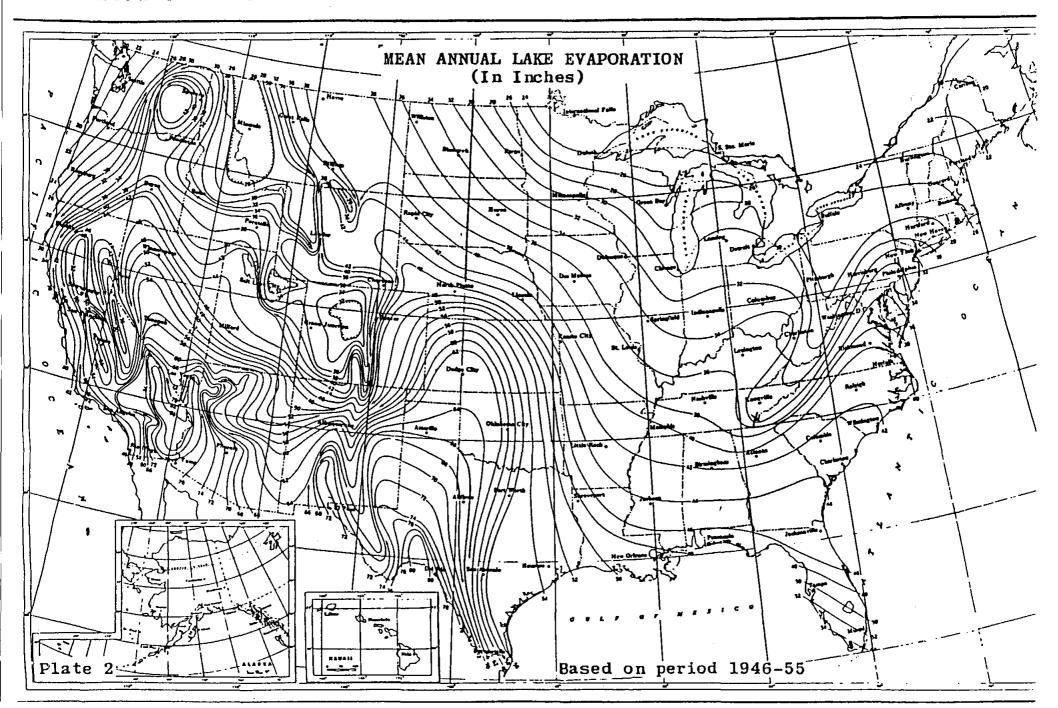
ENVIRONMENTAL DATA SERVICE Woodrow C. Jacobs, Director

JUNE 1968

REPRINTED BY THE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
1983



LAKE EVAPORATION



TECHNICAL PAPER NO. 40

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

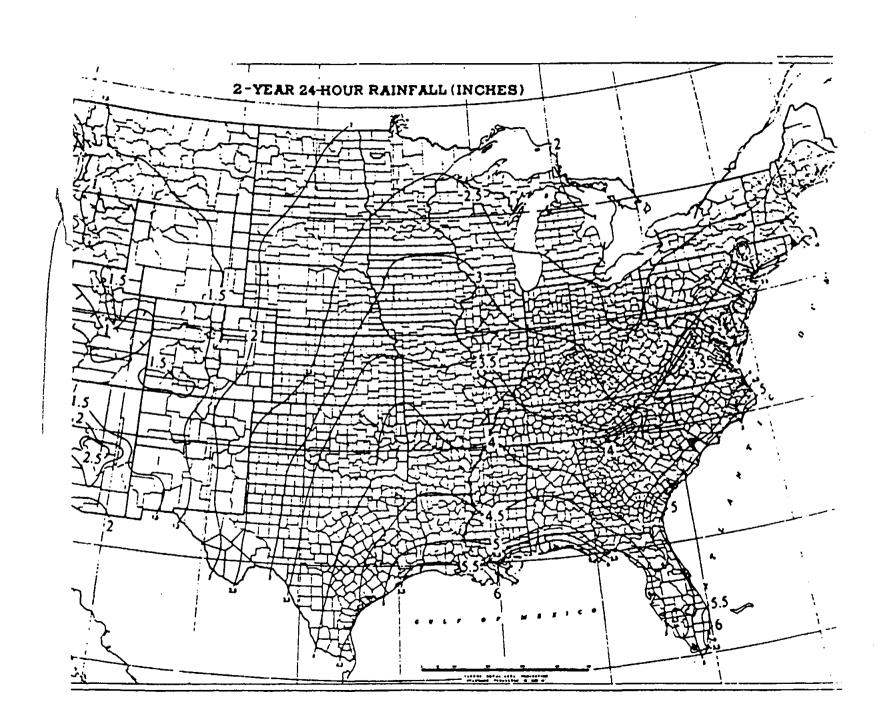
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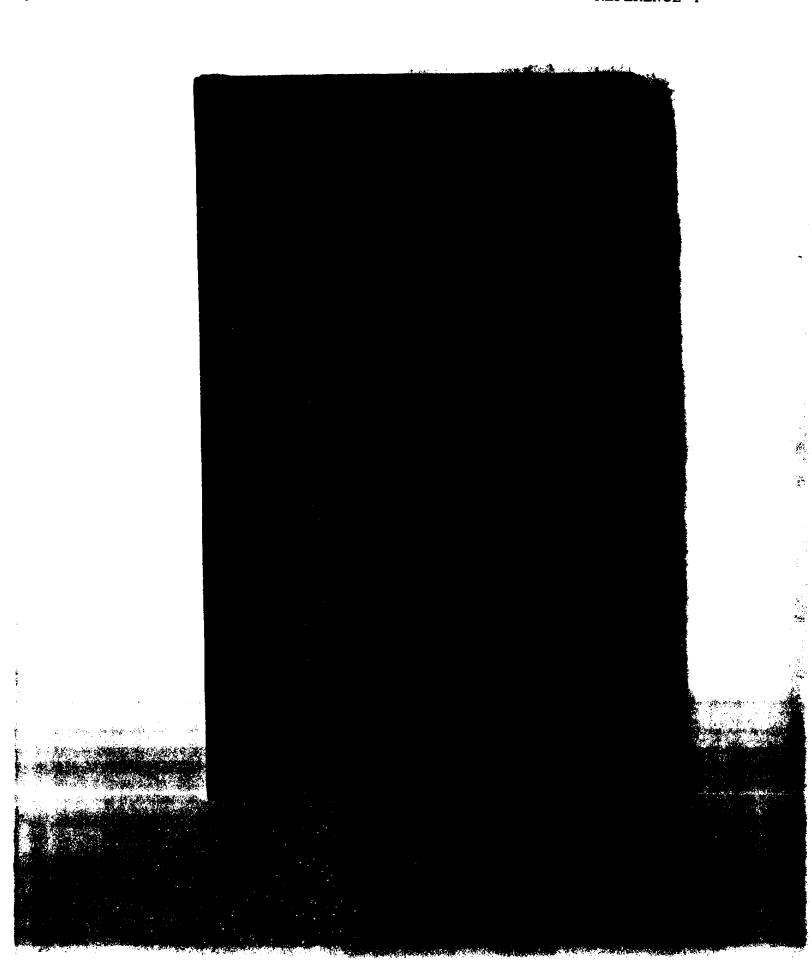
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Engineering Melabon, Sail Conservation Service 1.3. Department of Agriculture



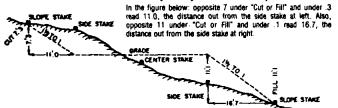
PROPERTY OF EPA





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 11/2 to 1.



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ENCE AND TECHNOLOGY CORP.



Project managen

1117 Perimeter Center West Suite W-212 Atlanta, Georgia 30338 (404) 392-9227

EPA Contract # 68-109-0055

BUNST Project No:

Cerclis ID No. :
KYD 050074889

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Allison abrasives, inc.

Quality Abrasive Cut-Off Wheels Since 1919

Lynn Osborne
PLANT MANAGER

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GeoSciences, Inc. Engineering Consultants

Mohammadi, Ph.D. President

P.O. Box 40185 Baton Rouge, LA 70835 Tel: (504) 387-8778 Fax: (504) 387-8779

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CARL H. BRADLEY
SECRETARY



COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FRANKFORT OFFICE PARK

18 REILLY ROAD

FRANKFORT, KENTUCKY 40601

SEX REPLIES

October 12, 1990

Craig Benedikt CERCLA PA/SI Regional Project Officer U.S. Environmental Protection Agency 345 Courtland Street, N.E. Atlanta, Georgia 30365

RE:

Preliminary Assessment (2) Simmons Casket Company Lancaster, Kentucky EPA ID# KYD 050-074-889

Dear Mr. Benedikt:

Submitted for your review is the Preliminary Assessment (2) for the Simmons Casket Company. This report is intended to update the Preliminary Assessment dated 21 March, 1984. Based on this report the following conclusions are made:

- 1. Finishing wastes were generated at the site from 1965 to 1984.
- 2. Stained soil and unidentified drums were found on the east side of the facility during a site visit in October 1989.
- 3. There are approximately 1330 potential ground water users located within 4 miles of the site.

As a result of this reassessment, the Kentucky CERCLA PA/SI program is recommending that a high priority Site Screening Investigation be planned for the Simmons Casket Company site.

Sincerely

Carl Millanti, Manager Uncontrolled Sites Branch

CM/CC/RP/kb

Preliminary Assessment (2)

of the former

Simmons Casket Company

Lancaster, Kentucky

by

Carolyn Clark and Robert Pugh

Uncontrolled Sites Section

Waste Management Division

Department for Environmental Protection

Commonwealth of Kentucky

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ENVIRONMENTAL SETTING

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- A Maps and Water Information
- B Photographics Log

TARGET ANALYSIS

- C PA (1), EPA Form 2070, and RCRA/NPL Policy Questionaire
- D Site Documents
- E Field Notes
- F Climate and Soil Information
- G Critical Habitats

SITE HISTORY

The Simmon Casket Company is located in Lancaster, Garrard County, Kentucky. Wooden and metal (steel, copper, and bronze) caskets were produced at the site from 1965 to 1984. The National Casket Company operated the site followed by Simmons Casket Company, and then York Casket Company.

The first step of the manufacturing process consisted of welding the caskets together. The next step was a 3 stage washer system. The first washer contained a mixture of detergent, from the Dubose Chemical Company, and water. When this solution was spent, it was diluted with soda ash and dumped in the sewer. The other 2 washers contained only water. A concrete berm was located in the washer area to contain overflow from the washers.

The final manufacturing step involved painting and lacquering the caskets. There were 6 paint booths and 2 lacquer booths. A vat used for stripping paint and varnish was also located in the painting/varnishing area.

Paint thinner was the only solvent used at the facility according to a former employee. A small amount of paint thinner was placed on rags and used to wipe off excess paint when necessary. Paint thinner was also placed in the stripping vat.

Hazardous wastes generated at the facility (EPA ID# KYD 05-007-4889) were placed in drums and kept on site until being picked up by the Oil Service Co. of Columbia, KY and taken to Reclaimed Energy Inc. of Connersville, IN.

In 1984, operations at the site ceased. Several drums of waste remained on site until 1985. In 1987 the facility was sold to Allison Abrasives, Incorporated. The facility was renovated and several structural changes took place. The renovations included the removal of three underground storage tanks. No evidence of soil or groundwater contamination was detected. In October of 1987, operations at the facility began. Allison Abrasives produces abrasive wheels.

On October 27, 1989, the Kentucky Department of Waste Management CERCLA conducted a PA site visit at the facility. Several unidentified drums and stained soil were found on the east side of the plant. There was evidence of careless handling of drums (Appendix B).

ENVIRONMENTAL SETTING

The Simmons Casket Company site is located in Garrard County, Kentucky, a part of the outer Blue Grass Physiographic Region. The topography of this area is typically gently rolling hills. Sinkholes are not well developed in this area due to the restriction of groundwater circulation by shally limestone (U.S.G.S. 1964).

The climate in Garrard County is moderate with warm summers and cool winters. The average annual precipitation is approximately 46 inches. The average annual net precipitation is approximately 11 inches (Appendix F).

The soil at the Simmons Casket Company site is classified as the Lowell series. This soil is typically residuum of interbedded limestone, calcareous shale, and siltsone. A representive profile is 11 inches of brown silt loam, 30 inches of brown, very firm clay and silty clay, followed by 12 inches of gray and yellowish brown mottled, very firm clay. The permeability ranges between 0.2 to 2.0 inches per hour. The pH of the soil

ranges between 4.5 to 7.8 (Appendix F).

The geological formation underlying the site is New Albany Shale of the Devonian Age. It is primarily composed of black shale with fine-grained quartz, crystalline pyrite, fine-grained material which is calcitic, phosphatic, ferric or organic. The New Albany Shale is underlain by Boyle Dolomite which is mostly dolomite and dolomitic lime-stone (U.S.G.S. 1971 and U.S.G.S. 1960).

Most drilled wells in the area of the Simmons Casket Company site do not produce enough water for a dependable domestic supply. Groundwater obtained from depths greater than 100 feet may contain salt or hydrogen sulfide (U.S.G.S. 1960).

Surface water at the site enters the Lancaster sewer system (Appendix A).

TARGET ANALYSIS

There is no quantitative data to support an air route assessment, therefore, the air route was not evaluated.

Access to the Simmons Casket Company site is not restricted. Consequently, there is the potential for direct contact to local human, animal, and botanical populations.

Municipal drinking water is supplied to local residents by Lancaster Water Works, Garrard County Water Association Incorporated, and Crab Orchard Water District. The Garrard County Water Association and the Crab Orchard Water District purchase water from the Lancaster Water Works which obtains water from 2 lakes located outside of a four mile radius of the site.

A ground water user survey indicates there are approximately 1330 potential ground water users located within a four mile radius of the Simmons Casket Company site. This value was determined by eliminating the areas of municipal supply as provided by water companies. The remaining unserviced houses, shown on 7.5 minute U.S.G.S. topographic maps of the area, were multiplied by a 3.8 population conversion factor. The calculated value may be inflated due to the use of cisterns and hauled water in the area (Appendix A).

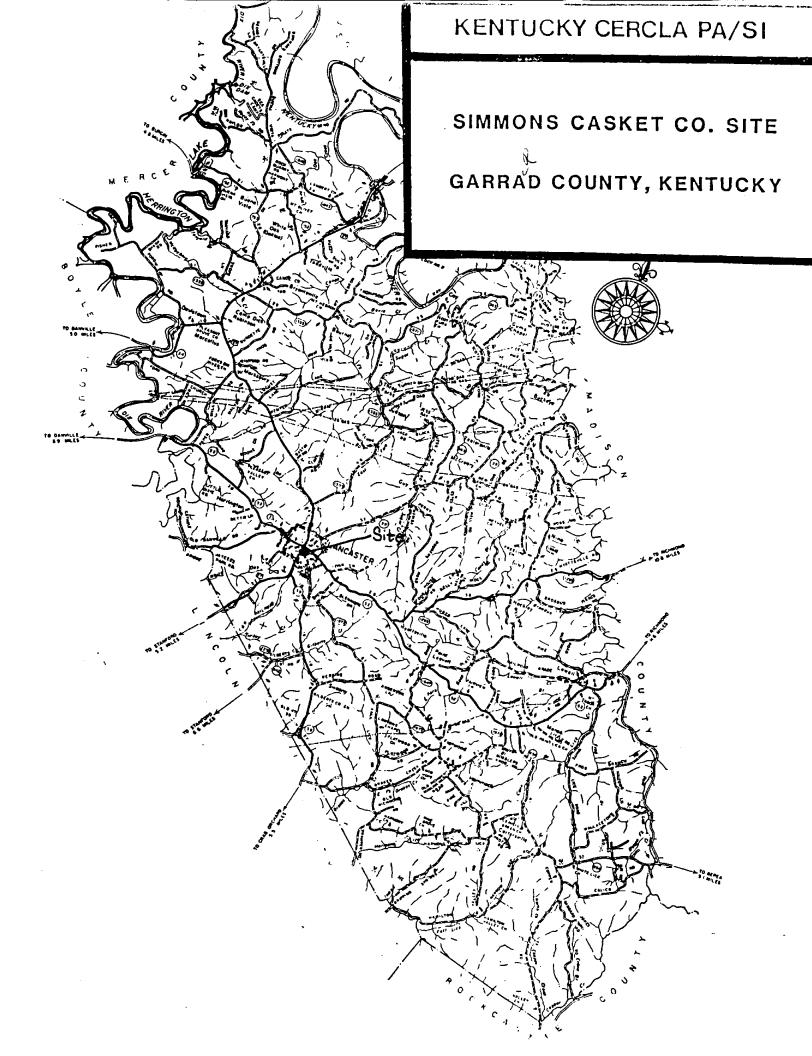
According to the Kentucky Nature Preserves Commission, there is one statelisted, threatened species, <u>Simpsonaias ambigua</u>, residing within a four mile radius of the site (Appendix H).

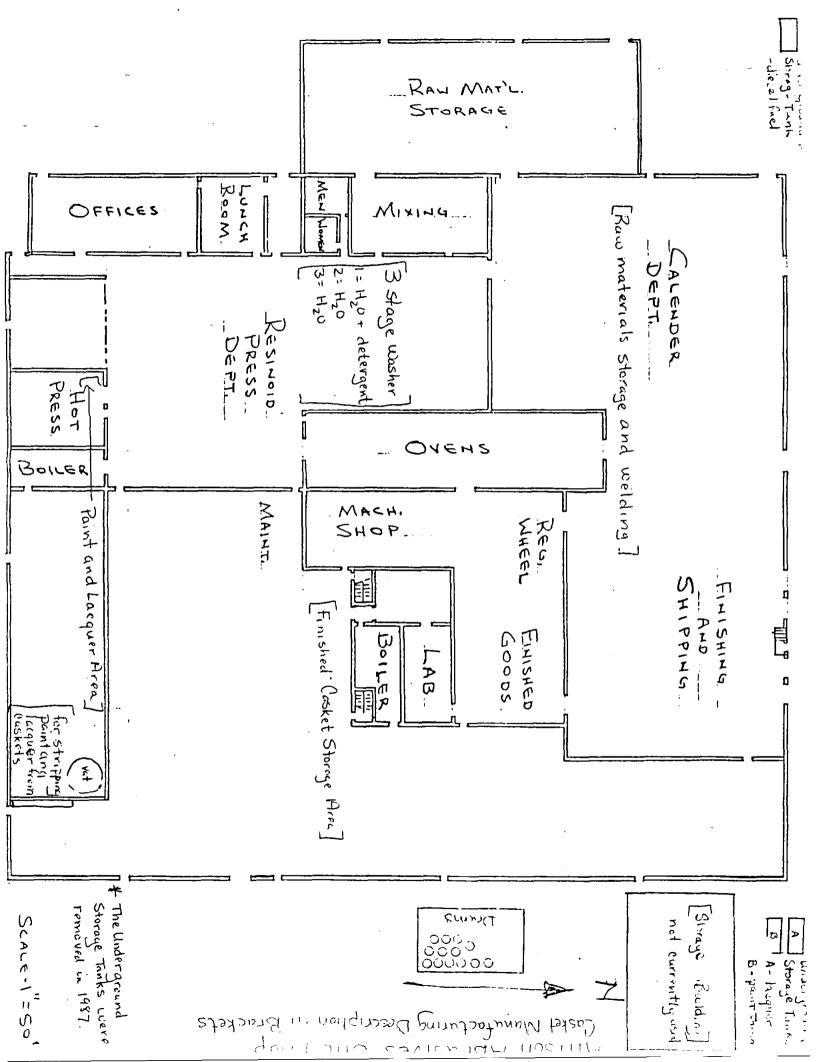
REFERENCES

1964, U.S.G.S., Geochemistry of Natural Waters of the Blue Grass Region, Kentucky.

1960, U.S.G.S., Availability of Groundwater in Boyle, Garrard, Lincoln, and Mercer Counties, Kentucky.

1971, U.S.G.S., Geologic Map of the Lancaster Quadrangle, Garrard and Lincoln Counties, Kentucky.





Appendix to the Simmons Casket Company (Allison Abrasives) Site Map

Welding and Raw Materials Area

The parts (composed of steel, copper, and bronze) were stored and welded together in this area.

3 Stage Washer Area

The first washer contained water plus a detergent from the Dubose Chemical Company. The spent washer solution was mixed with 6 bags of soda ash before it was dumped into the sewer system. The other two washers contained only water.

Paint Area

The caskets were sprayed with paint and lacquer in this area. At one end was a vat used to dip and strip lacquer and paint from caskets.

Storage Area and Storage Building

Finish caskets were stored here.

Underground Storage Tanks - removed in 1987

#1 - contained diesel fuel

#2 - contained lacquer

#3 - contained paint thinner

| Record of | PHONE CALL | DISCUSSION | □on-site | | | |
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| - number lister Works | Carolyn Crawcraft | DATE: | 112/90 | | | |
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| CONCLUSIONS, ACTION TAKEN OR REQUIRED: | | | | | | |
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INFORMATION COPIES

TO:

GROUNDWATER USER DATA DOCUMENTATION

| NAME OF SITE | Simmons Casket Comp | x w | <u>`</u> |
|--------------|---|---|-----------------------|
| COUNTY: | Garrad |) | |
| RADIUS | HOUSE/BUILDING COUNT | POPULATION | |
| å M∐e | . 4 | 15.2 | |
| ⅓ М⊔е | 0 | 6 | |
| l Müe | /3 | 49.4 | |
| 2 Miles | 88 | 334.4 | |
| 3 Miles | 72 | 273.6 | 3 mile tote 672.6 |
| 4 Miles | 173 | 657.4 | 4 mile to |
| MEHTODOLOG | House and building counts are map(s). These numbers are factor of 3.8 persons per Uncontrolled Hazardous Walanual, to obtain population | then multiplied by the household, as suggeste iste Site Ranking Sy: | conversion d in EPA's |
| REFERENCES | 7.5 Min U.S.G.S. Topographic N | Reps: Lancoster Quad Buckeye Quadr Bryantaville Qua Standford Quad | dranclo |
| COMMENTS | | | |

EPA'S COPY

PRELIMINARY ASSESSMENT (2) SIMMONS CASKET COMPANY LANCASTER, KENTUCKY EPA ID: 050-074-889

| Facility name: Simmons Casket Company |
|--|
| Location: Lancuster, Kentucky |
| EPA Region: // |
| Person(s) in charge of the feathy: |
| |
| |
| Name of Reviewer C. Craycraft Date: |
| General description of the facility: (For example: landfill, surface impoundment, pile, containor; types of hazardous substances; location of the |
| facility; contamination route of major concern; types of information needed for rating; agency action, etc.) |
| Site formerly produced caskets. The site has |
| been remodelled and now produces atrasive |
| wheels. |
| Potential contaminants include paint sludge, |
| laquers, and solvents such as 1,1,1-tri- |
| chloroethane. |
| |
| Socres: SM = 34,551SgW = 59,2 + SgW = 0 Sg = N/A) |
| SFE = N/A |
| SOC = 37.5# + Danotes Observed release Score |

HRS COVER SHEET

AND THE PARTY OF T

| | | Surface Water Route | Work Sheet | | | | |
|---------|--|-----------------------------------|---------------------|-----------------|-------|---------------|-------------------|
| | Rating Factor | Assigned Value (Circle One) | 1 | Multi- plier | Score | Max. Score | Ref. (Section) |
| | Observed Release | 0 45 | | 1 | 0 45 | 45 | 4.1 |
| | If observed release is give | | | | | | |
| 2 | Route Characteristics Facility Slope and Interventerial | ning 0 1 2 3 | | 1 | O | 3 | 4.2 |
| | 1-yr. 24-hr. Rainfall 22.7 Distance to Nearest Surfa Water 2500' | 0 1 2 3 | | 1 2 | 26 | 3 | |
| | Physical State untrusco | 0 1 2 3 Total Route Characterist | lics Score | <u> </u> | 3 | 15 | |
| <u></u> | Containment unknown | 0 1 2 3 | | 1 | 3 | 3 | .4.3 |
| 4 | Waste Characteristics Toxicity/Persistence Hazardous Waste Linkha Quantity | | 5 (18) 5 6 7 (8) | 1 | 18 | 18 | 4.4 |
| | į. | Total Waste Characterist | lics Score | | 26 | 28 | |
| 3 | Distance le Sensitive Environment > 1 mile | 0 1 2 3 | | 3 2 | 0 | 9 | 4.5 |
| | Population Served/Distant to Water Intake Downstream | 12 16 18 20 24 30 32 35 | 10 40 | 1 | 0 | 40 | |
| | | Total Targets Sco | re | | 0 | 55 | |
| ह | tf tine 1 is 45, multiply If tine 1 is 0, multiply | | | NOR. | 0 | 64,350 | |
| Ø | Divide line 6 by 64,350 a | and multiply by 100 | S | sw = | 0 | NOR | |

٠.;

| | | | | | | | <u>'</u> | $\frac{\circ}{}$ | <u>C0</u> | RED | | · | |
|--|----------|-------|------|------|------|------|------------|------------------|-----------|---------------------------------------|-------|---------------|-------------------|
| <u> </u> | Fire a | ınd | Ex | plo: | sior | ı W | ork | She | et | | | | |
| Rating Factor | A | | rcle | | | • | | | | Multi- plier | Score | Max. Score | Ref. (Section) |
| 1 Containment | 1 | | | | | 3 | | | | 1 | | 3 | 7.1 |
| Waste Characteristics Olrect Evidence Ignitability Reactivity | 0 | 1 | 2 2 | 3 3 | | | | | | 1 1 | | 3 3 3 | 7.2 |
| Incompatibility Hazardous Waste Quantity | 0 | 1 | . 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 1 | | 3 | |
| | otal Was | ste : | Cha | ırac | tari | stic | 3 S | cor | • | | | 20 | |
| Targets Distance to Nearest Population | 0 | 1 | 2 | 3 | 4 | 5 | • | | | 1 | | 5 | 7.3 |
| Distance to Nearest Building | 0 | 1 | 2 | 3 | | | | | | 1 | | 3 | |
| Distance to Sensitive Environment | 0 | 1 | 2 | | | | | | | 1 | | 3 | |
| Land Use Population Within 2-Mile Radlus | 0 | 1 | 2 | 3 | 4 | 5 | | | | 1 | | 3 5 | |
| Buildings Within 2-Mile Radius | 0 | 1 | 2 | 3 | 4 | 5 | | | | 1 | | 5 | |
| | | | | | | | | | | | | | |
| | То | tai | Tar | gots | s S | core |) | | | | | 24 | |
| Multiply 1 x 2 x 3 | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | 1,440 | |
| 5 Divide line 4 by 1,440 and | multipl | y b | y 10 | ю | | | | | | 2 k i = | | | |

| | S | s² |
|---|----------------------|---------|
| Groundwater Route Score (Sgw) | 39.5 59. 2 | 1560.25 |
| Surface Water Route Score (Ssw) | . 0 | 0 |
| Air Route Score (Sa) | NOT! | SCORED |
| $s_{gw}^2 + s_{sw}^2 + s_a^2$ | | 1560.25 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$ | | 39.50 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$ | | 34.22 |

WORKSHEET FOR COMPUTING SM

| | NOTSCORE |) | | | |
|--|--|------------------|-------|---------------|-----------------|
| | Air Route Work Sheet | | | | |
| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. Section |
| Observed Release | 0 45 | 1 | | 45 | 5.1 |
| Date and Location: | | _ | | | |
| Sampling Protocol: | | | | | |
| | e S _a = 0. Enter on line [3] hen proceed to line [2] | | | | : |
| Waste Characteristic Reactivity and Incompatibility Toxicity Hazardous Waste | 0 1 2 3 0 1 2 3 0 1 2 3 4 5 6 7 8 | 1 | | 3 9 8 | 5.2 |
| Quantity | | | | • | *** |
| | Total Waste Characteristics Score | | | 20 | |
| Targets Population Within 4-Mile Radius |) 0 9 12 15 18 21 24 27 30 | 1 . | | 30 | 5.3 |
| Distance to Sensiti Environment | | 2 | | 6 | |
| Land Use | 0 1 2 3 | 1 | | 3 | |
| | | | | | |
| | | | | | |
| | Total Targets Score | | | 39 | |
| Multiply 1 x 2 | x 3 | | | 35,100 | |
| Divide line 4 by | 35,100 and multiply by 100 | S ₂ - | | | _ |

| - | . • | Direct C | ontact Work She | et | | | |
|-----|---|--------------|----------------------|-----------------|-------|---------------|------------------|
| | Rating Factor | _ | ned Value de One) | Multi- pliar | Score | Max. Score | Ref. (Section |
| | Observed Incident | 0 | 45 | 1 | 0 45 | 45 | 3.1 |
| | If line 1 is 45, proceed to | | | | | | |
| 2 | Accessibility | 0 1 | 2 ③ | 1 | 3 | 3 | 8 2 |
| 3 | Containment unknown | 0 (| 3) | 1 | 15 | 15 | 8. 3 |
| • | Waste Characteristics Toxicity Lev | known 0 1 | 2 🗕 | 5 | 15 | 15 | 8.4 |
| [3] | Targets Population Within a 1-Mile Radius | 0 1 : | 2 3 4 5 | 4 | 12 | 20 | 8.5 |
| | Distance to a > wild | <u>(0</u> 1) | 2 3 | 4 | 0 | 12 | <u> </u> |

| eros2 stegraT IntoT | | 12 | 32 | |
|--|-----------|--------------|-----------|---|
| 6 If line 1 is 45, multiply 1 $x = 4 \times 5$ If line 1 is 0, multiply 2 $x = 3 \times 4 \times 5$ | NGR OR | 8100 | 21,600 | |
| Divide line 6. by 21,600 and multiply by 100 | Soc = | 37.5 37.5 | NOR OR | - |

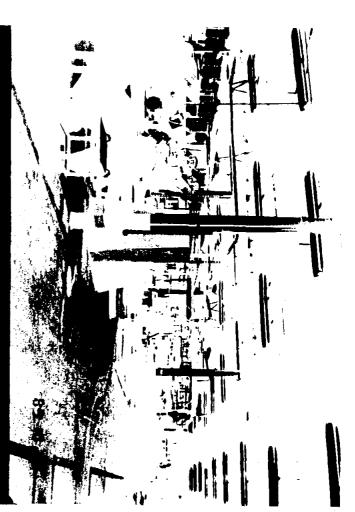
Simmons Casket Company

On October 27, 1989, Randy Thomas and I conducted a preliminary assessment Site visit at the former Simmons Casket Company site (now called allusin abrasere. We were shown arreed the facility by Lyn Debon and an employee who also head worked for the Seminors Company.

The site had been renovated by allison abrasines who now produces abrasine wheels at the facility.

Bruef History of the Site: 1. Operations ceased in 1984 2. In 1987 the site was sold to Allian abrasines and renovated. 3. October 1987 - operations began again.

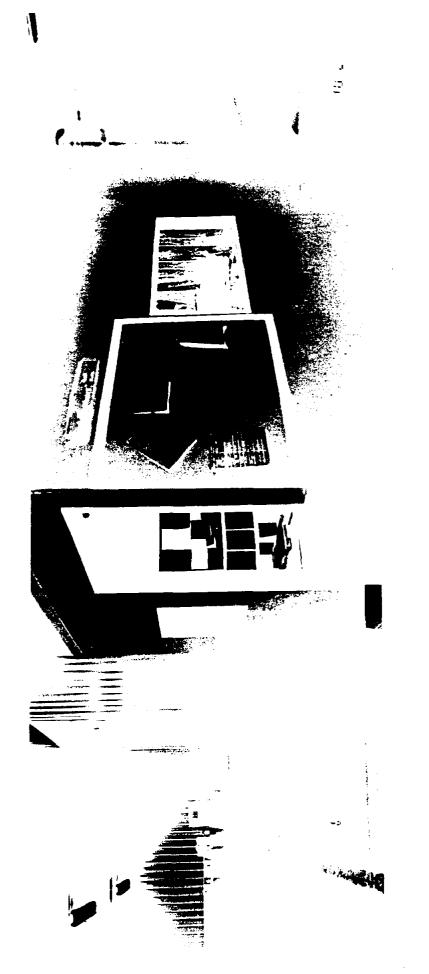
On the east side of The facility leaking drams and stained sail was discovered.



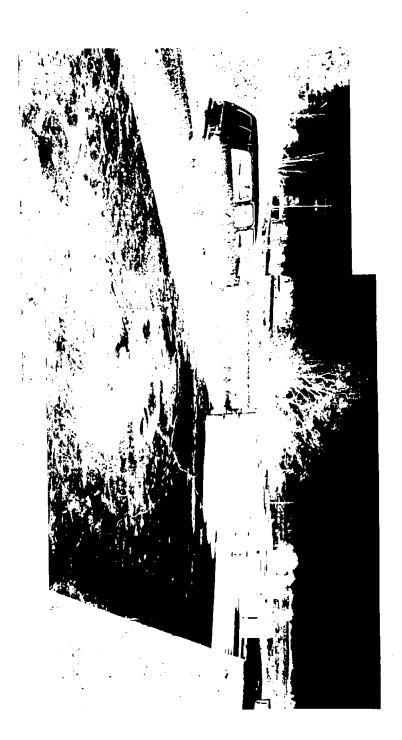
The old raw materials and welding area at the Simmons Casket Company site (alias Allison Abrasives, Inc.).



The old washer area at the Simmons Casket Company site (alias Allison Abrasives Inc.).



Pan view of part of the old paint area at the Simmons Casket Company site (alias Allison Abrasives, Inc.).



Pan view of drums located at the Simmons Casket Company site (alias Allison Abrasives, Inc.).



View of a concrete pathe Simmons Casket (Abrasives, Inc.). Company Site pad on which (alias Allison



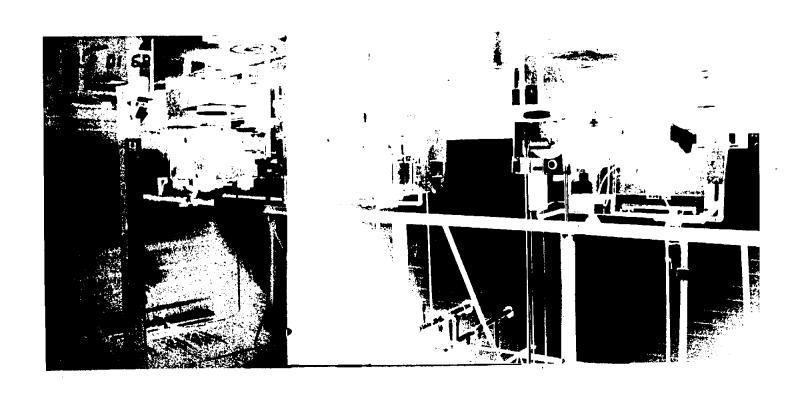
located at Abrasives, Simmons Casket Company





Part of the old paint area at the Simmons Casket Company site (alias Allison Abrasives, Inc.).





The old storage area at the Simmons Casket Company site (alias Allison Abrasives, Inc.).

MEMORANDUM

TO:

Jack E. McClure, Jr., Acting Chief

Hazardous Material Management Section

FROM:

Leslie Wilson, Environmental Specialist I

Hazardous Material Management Section

DATE:

June 19, 1978

SUBJECT: National Casket in Lancaster, Kentucky

On June 6, 1978, I met with Joe Shore, Purchasing Agent, for National Casket in Lancaster, Kentucky to discuss their present paint sludge disposal practices.

National Casket produces waste composed mostly of paper and wood. They also dispose of paint sludge, waste paint and solvents. Their waste paint and solvents are presently sent to Inland Chemical Corporation for recycling. Their paint sludges are compacted in a 40 yard compactor along with their non-hazardous waste material. Their waste is hauled away by Steven's Disposal in Danville, Kentucky to the landfill in Lancaster, Kentucky.

I have requested that National Casket complete our analysis form for their paint sludge. They dispose of approximately two (2) 55 gallon drums a week.

LW:cjg

rike.

1540 FLANCUM

T0:

Dantel R. Dolan, Chief 🗸

-azardous Material Management Section

FROM:

Leslie A. Moberly, Environmental Specialist

Hazardous Material Management Section 3/1

DATE:

March 26, 1979

SUBJECT: Hot Line Complaint, Garrard County, National Casket.

On March 20, 1979, I met with Joe Shore, plant manager for National Casket. The purpose of this visit was to discuss a hot Line complaint concerning the disposal of National Casket's waste paint sludge and solvents.

According to Mr. Shore their paint sludge is picked up and disposed of by Stephen's Disposal Company. I verified this information with Hal Stephens who explained that they take the paint sludge to the Garrard County landfill. National Casket is now in the process of completing the special permission/analysis form for the paint sludge.

National Casket's waste solvents, mainly Toluene, are picked up by the George Whitesides Company. I verified this information with the George Whitesides Company.

I contacted the individual who made the complaint and explained the results of my investigation. I would like to note that this individual would like to remain anonymous, to the company in question.

LAM: jlc

| • |
|--|
| DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION OF THE PROPERTY |
| CFFICE OF CONTROL AND CHICARD AFFAIRS |
| 183 1 79-253 Date 3/5/09 Division Referrals 1. HMWW |
| 2:10pm |
| Problem National Casket Manufacturing Co. is secrety |
| and Officially disposing of various paint + Lacquer mater |
| and (Housely) it = ally disposing of various paint + Lacquer moternally not say where They are disposing of waste. LOCATION: How 39 - South Langaster, Ry. DATE OF OCCURENCE PAST WEAT |
| 11 20 - S. W. La sale D. |
| LOCATION: Hwy 39 - South Lancaster, Ky. DATE OF OCCURENCE DAST YCAT |
| |
| CONSIENTS: CAller is a city councilman and said the compar |
| was illerally disposing of waste at the Standford Land fill |
| was illerally disposing of waste at the Standford Landfill |
| There they are shipping it or You! - year mg= |
| NOTE: LArry Kelly PHONE (Idd) 792 4/16 COUNTY GARRARD CO. |
| The state of Decision of the state of the st |
| ADDRESS: 110 Dogwood Drive CITY ANCASTER STATE KY ZER KO444 |
| OTHERS CONTACTED: |
| Call in sepone to Ans pressent. 3/1/29 |
| Dolar Eduncar |
| STO. ATC. M. |
| TO BE COMPLETED BY LIAISON: |
| DIVISION STATUS |
| ACTION TAKEN: |
| |
| PERSONAL DATE: |
| CONTACTED CALLER SY LETTER INTERVIEW PHONE DATE: |
| ACTION PENDING |

Harris Carlos Ca

C. Frank Harsher, III 程式技术及研究研究研究研究研究 Secretary



COMMONWEALTH OF KENTUCKY

DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS MATERIAL AND WASTE MANAGEMENT

PINE HILL PLAZA
1121 LOUISVILLE ROAD
FRANKFORT, KENTUCKY 40601

November 27, 1979

130° m. 100°

National Casket Company Box 42, Industry Road Lancaster, Kentucky 40444

Attn: Mr. Ron Milburn

Dear Mr. Milburn:

Kentucky's present regulatory program does not permit the disposal of any hazardous waste at other than a permitted hazardous waste management facility. Further, Kentucky does not presently have a permitted chemical landfill.

The Department's special permission system is designed to screen out all hazardous wastes and permit only identifably non-hazardous material to be disposed of in landfills in the Commonwealth.

We have reviewed the leachate test results of your paint sludge. The high concentrations lead (PB) in your companys waste resulted in it being categorized as hazardous. This determination was made by applying the definitions contained in the proposed Federal Hazardous Waste Regulations (Federal Register, December 18, 1978, p. 58946 et. seq.) and Kentucky Hazardous Waste Regulations and Guidelines.

If you have any questions concerning alternative disposal techniques, out-of-state disposal facilities, or additional information on the special permission request rejection, please feel free to call. A member of our field staff will call on you shortly to discuss potential disposal alternatives.

Sincerely,

Roger Blair, Director

Division of Hazardous Material &

Waste Management

cc: Pat Haight, Manager
Leslie Moberly, Supervisor
John Brooks, Enforcement



Jackie Swigart

COMMONIVEALTH OF KENTUCKY

DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS MATERIAL AND WASTE MANAGEMENT

P)NE HILL PLAZA 1121 LOUISVILLE ROAD FRANKRORT, KENTUCKY 40601

January 8, 1980

THE PARTY OF PARTY SALES

City Hall Lancaster, Kentucky 40444

Dear Sir:

This letter is in response to a January 2, 1980 request from the the lacket Company to dispose of paint sludge waste at your landfill #040.06 in Carrard County. We have evaluated the results of the leach test submitted by National Casket Company. Based on these test results, the materials would be classified as non-hazardous. Therefore, permission is hereby granted for the disposal of 2,000 gallons per year of this waste material. However, because of variable test results, quarterly leach tests for lead content will be required.

You may consider this letter as permission to accept this waste until October 2, 1980, expiration of your current permit. Before the expiration date of your permit, we will again review the disposal request and make a decision as to further acceptance of the waste. However, this permission may be revoked by the Department before that date if it is determined that the disposal is not in accordance with these specifications and requirements.

If you have any questions, please feel free to contact me.

Sincerely,

Roger Blair, Director

Division of Hazardous Material & Waste Management

cc: Pat Haight, Manager
John Brooks, Enforcement
Marsha Swain, Inspector
George Parker, Engineer

SEPA Notificatio of Hazardous Waste

REFERENCE 11

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets paper. Indicate the letter of the item which applies.

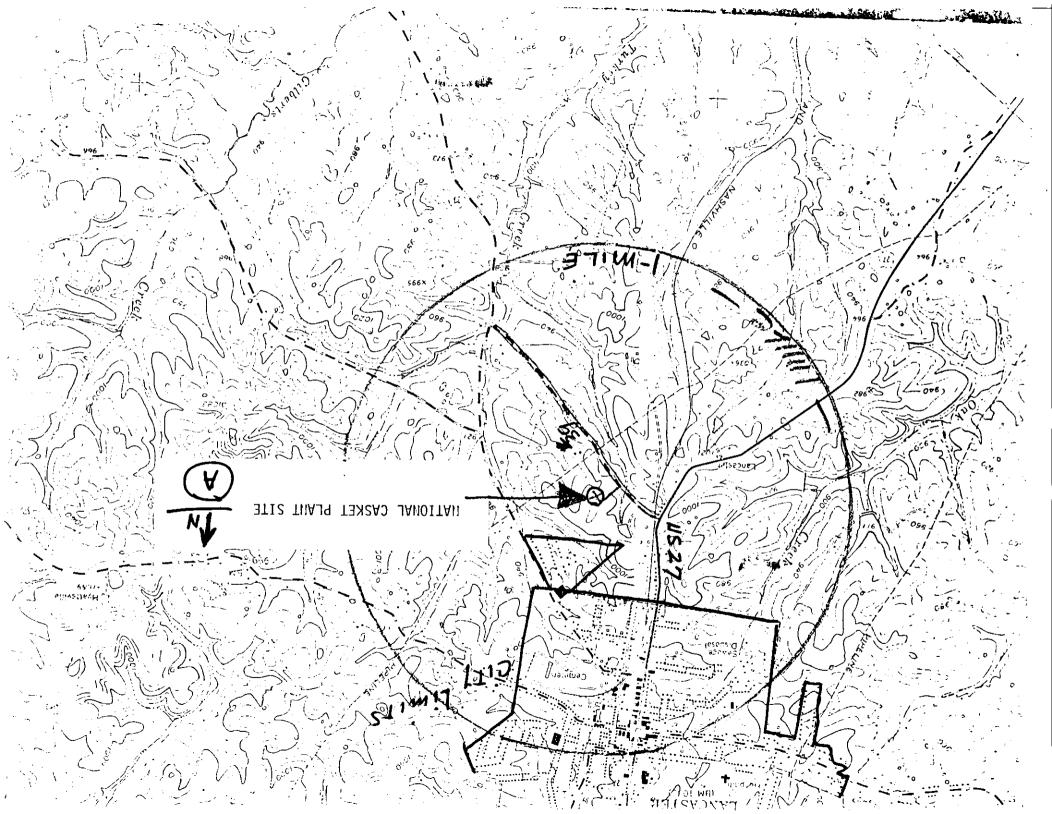
EPA Form 8900-1

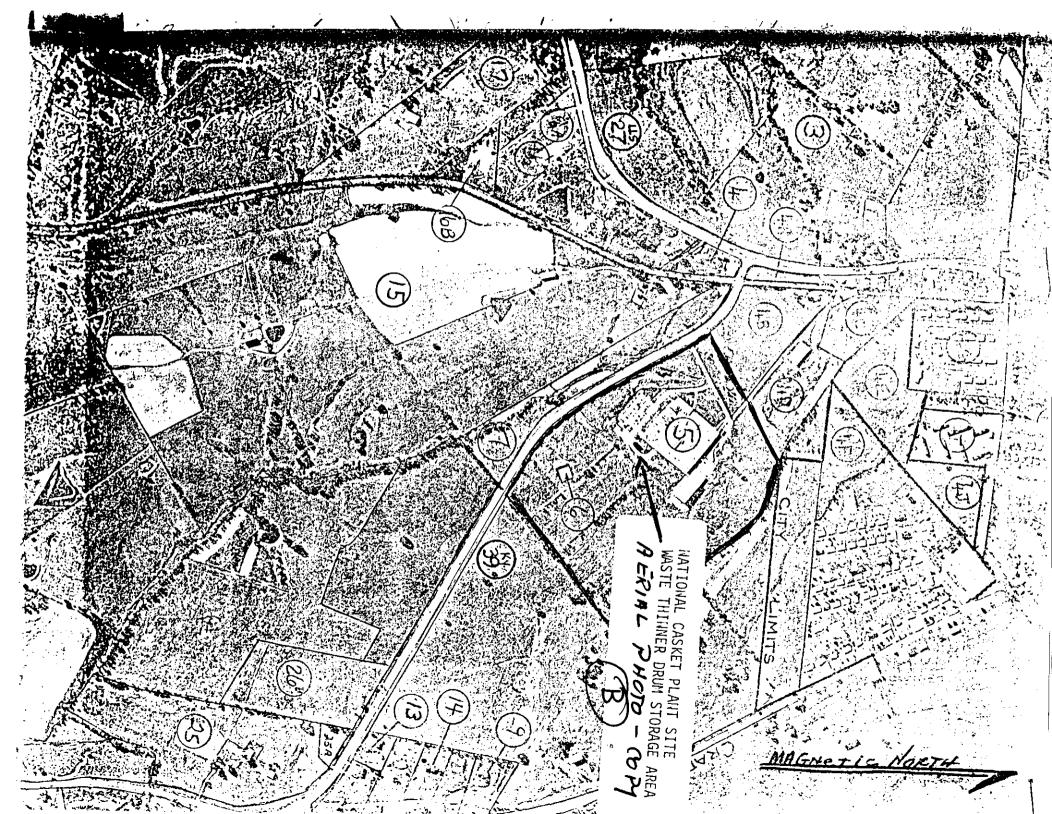
Please type or print in ink. If you need additional space, use separate sheets of

VI/C no

| | | | | | | ` | <u> </u> | 000 | 1085 |
|----------|---|------------------------|--------------------------|--------------------|----------------------|---------------|-----------------------------------|---------------------------------------|-------------------------------|
| <u> </u> | Person Required to Notify: | | N | | | | | | <u>-</u> |
| | Enter the name and address of | the person | Name | | | | | | - |
| | or organization required to noti | ty. | Street | 1 | | | | | |
| | | | Carr | 1 | | | 0 | 7: 0 : | |
| | | | City | | | | State | Zip Code | |
| _ | Site Location: | | | | | | | | |
| | Enter the common name (if kno | own) and | Name of Site | | | t Co. | Div.G+W (| <u>Casket C</u> | orp. |
| | actual location of the site. | (50) | Street | ` Route | 3 DFF | Y.V 1 | 39 | | |
| | KYD980557 | 1065 | | | | | 1/ | | 40444 |
| | A TOTAL SECTION | | City Lar | ncaster | County | Garrar | d _{State} Ky | Zip Code | |
| | Person to Contact: | * * ** | | | | | | | |
| | Enter the name, title (if applical | Name (Last, F | First and Title) | <u>Madden</u> | , Fran | k B | | | |
| | business telephone number of t | the person | Phone | (606) | 700 010 | 7 | | | |
| | to contact regarding information submitted on this form. | n | | <u> </u> | 792-210 | <u> </u> | | | |
| | | | | | | | . 1 | | |
| | Dates of Westa Handling: | | | | | 79 | 6-1 | | 3- |
| | Dates of Waste Handling: | 4.5. = 4 : | • | . | | , , | | | |
| | Enter the years that you estimate treatment, storage, or disposal to | | From (Year) | 1965 | To (Year) | Pres | ent | | |
| | ended at the site. | | · <u> </u> | | • | - | | | ~ |
| | | | | | | | | | |
| _ | | - | | | | | | · · · · · · · · · · · · · · · · · · · | |
| | Waste Type: Choose the opt | ion you pre | efer to com | plete | | | | | |
| | Option I: Select general waste t | types and so | urce catego | ries. If | Option 2: T | This option | n is available to | nersons fam | iliar with the |
| | you do not know the general wa | ste types or | sources, yo | u are | Resource C | onservation | on and Recover | y Act (RCRA) | Section 300 |
| | encouraged to describe the site | יח item i—ע | escription o | f Site. | regulations | (40 CFR I | Part 261). | | |
| | General Type of Waste: | Source o | | | Specific Ty | | | | |
| | Place an X in the appropriate boxes. The categories listed | Place an boxes. | X in the app | propriate | EPA has as: | signed a 1 | our-digit numb ons under Secti | er to each ha | izardous was: CRA Enter ti |
| | overlap. Check each applicable | 22,720. | | | appropriate | four-digit | number in the | boxes provid | led. A copy o |
| | category. | | | | | | wastes and cod egion serving t | | |
| | 1 Corporing | 1 🗆 14:- | _! | | located. | | egion serving t | ne otate in v | rinen the site |
| | □ Organics □ Inorganics | 1. 🗆 Mit | ning Instruction | | F | | | - | |
| | 3. Solvents | 2. □ Cor | | 1 | F003 | | F018 | | |
| | 4. Pesticides | 4. □ Fer | | | F005 | | | ┥ | |
| | 5. Heavy metals | | er/Printing | - 1 | | | | | |
| | 6. ☐ Acids | | ther Tannin | ľ | } | | ļ | | |
| | 7. 🗆 Bases | 7. ☐ Iror | n/Steel Four | ndry | | | רח 🌣 | | |
| | 8. PCBs | 8. 🗆 Che | emical, Gen | eral | | | | | |
| | 9. Mixed Municipal Waste | 9. 🗆 Pla | ting/Polishi | ng | | | 5 7 | 1:1 | 0 |
| | l0. □ Unknown | 10. 🗆 Mil | itary/Ammu | unition | | | | 1226 | |
| • | I1. ☐ Other (Specify) | | ctrical Cond | uctors | | | (0 C) | | |
| - | | 12. □ Tra | · · · - · · - | | | | - | | |
| • | | | lity Compani | | | | | | <u>.t.</u> . |
| ٠ | | 14. □ Şar 15. □ Pho | nitary/Refus | se [| A b c · · · c | u | rd ou s <i>w</i> ās | | ~ |
| | | 15. □ Pho 16. □ Lab | | | ADOVE - | | | | - ; |
| | | 17. 🗆 Uni | - | | | non 261. | specific | sources | |
| | | | rer (Specify) | | | ∠0 ⊥ • | JΙ | | |
| | | | <u>Operati</u> | | | | | | |
| | | | | | | | | | |
| 1 | Form Approved DMB No. 2000-0138 | | | _ | | | | | |
| | | | | | | | | | |

| | vót≀fication of Hazardous Waste Site | Side Two | |
|-------|---|--|--|
| F | Waste Quantity: | Facility Type | Total Facility Waste Amount |
| | Place an X in the appropriate boxes to indicate the facility types found at the site. | 1. 🗆 Piles | cubic feet . Unknown |
| | In the "total facility waste amount" space | 2. □ Land Treatment 3. □ Landfill | gallons 5000 Maximum |
| - | give the estimated combined quantity (volume) of hazardous wastes at the site | 4. 🗆 Tanks | Total Facility Area |
| | using cubic feet or gallons. | 5. 🗆 Impoundment | square feet 2750 * |
| | In the "total facility area" space, give the estimated area size which the facilities | 6. ☐ Underground Injection 7.전3 Drums, Above Ground | acre's .09 |
| | occupy using square feet or acres. | 8. Drums, Below Ground | 0.00 |
| | | 9. D Other (Specify) | |
| 3 | Known, Suspected or Likely Releases | to the Environment: | |
| | Place an X in the appropriate boxes to indica or likely releases of wastes to the environment | ate any known, suspected, [ent. | ☐ Known ☐ Suspected ☐ Likely ☐ None |
| | Note: Items Hand I are optional. Completin hazardous waste sites. Although completing | g these items will assist EPA and State and ng the items is not required, you are encour- | local governments in locating and assessing aged to do so. |
| Н | Sketch Map of Site Location: (Option | al) | |
| | Sketch a map showing streets, highways, routes or other prominent landmarks near | | |
| | the site. Place an X on the map to indicate the site location. Draw an arrow showing | SEE ATTACHED: | • |
| | the direction north. You may substitute a | | |
| | publishing map showing the site location. | A. Topographical Ma B. Aerial Photo co | |
| · | | C. Photo copy Drum | "Waste" storage area |
| | | D. Drawing of Plan E & F Copies of aeria | |
| | | E & F Copies of aeria | r photos |
| | | • | 28 |
| | | | |
| | | | |
| | | | |
| | | | |
| i | Description of Site: (Optional) | | |
| • | Describe the history and present | Paint thinner waste | - stored in 55 gal. 40 + |
| | conditions of the site. Give directions to the site and describe any nearby wells, | drums - pumped into | tank trucks once |
| | springs, lakes, or housing. Include such | or twice per year - recycling facility | transported to a to reclaim the solvents. |
| | information as how waste was disposed and where the waste came from. Provide | RCRA | |
| | any other information or comments which may help describe the site conditions. | | rendered neutral and |
| | Test of the site conditions. | transported to City 040.06 Est. 2000 Ga | |
| | 1-800 | | 10 · p 01 · y 011 |
| | á. | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| | | | |
| | • | | ÷ |
| | , | | |
| | | _ | |
| J | Signature and Title: | | |
| | The person or authorized representative | Name Frank B. Madden, Jr. | Owner, Present |
| | (such as plant managers, superintendents, trustees or attorneys) of persons required | P.O.Box 42 Industria | |
| | to notify must sign the form and provide a mailing address (if different than address | Street | ☐ Transporter |
| | in item A). For other persons providing notification, the signature is optional. | City Lancaster State K | ¥0444 ☐ Operator, Present ☐ Operator, Past |
| | Check the boxes which best describe the |) , 2m.1. | XXX Other |
| | relationship to the site of the person required to notify. If you are not required | Signature Made [] | Date /// |
| | to notify check "Other". | | • |





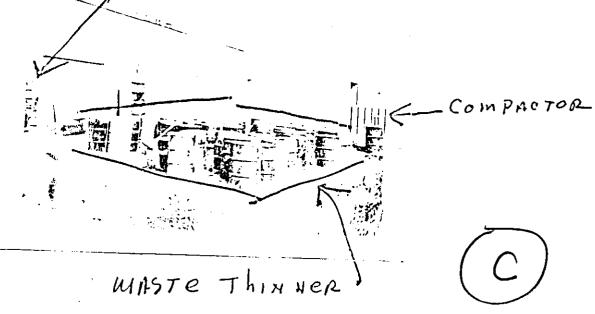
EMPTY DRUMS

South to NORTH

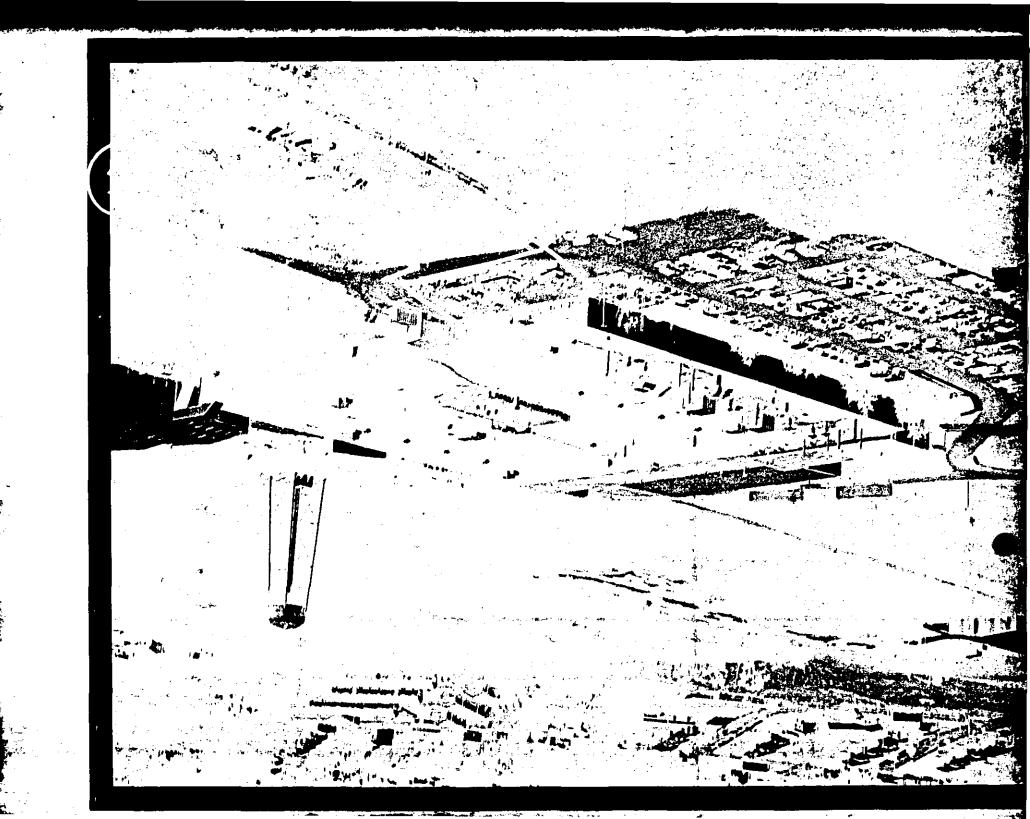
EMPTY DRUMS
WASTE THINNER

10-14-80

VIVEST to EAST



Referto EPA FORM 3510-3 (6-80) PAGE 5 OF 5





| Facility Name SIMMONS CASKET | | Regi | stration # KYD05-007-4884 |
|--|--|-----------------------|--|
| nty (GARRAD Date 5-21-82 | Time 1:15 p. | m. | Routine () Followup () |
| Type of Operation PAINTING OFFER | TION | <u></u> - | |
| A. VERIFICATION OF REGISTRATION | C NC N/A | С. | WASTE STORAGE (continued) C NC |
| 1. Operations consistent with Registration B. RECORDS/MANIFESTING | (wyw (/) () | 7. | The storage of ignitable, ()) reactive or the mixture of incompatible waste is conducted so that it does not |
| Test results and waste analysis records maintained Manifests correct/complete Manifests maintained (Generator's copy and/or returned TSD facility copy) Exception report submitted and maintained Annual reports submitted and maintained Notification of international shipments | | 9. | produce extreme heat, pressure, toxic or flammable fumes, violent reaction or damage the container's structural integrity. Storage area(s) are inspected by owner/operator at least weekly by log. () (>>> Personnel have been trained in emergency procedures. () () Hazardous waste storage tanks designed to prevent or contain spills. () () |
| C. WASTE STORAGE | • | 11. | Contingency Plan Maintained at Facility ⊁ () () |
| Containers meet DOT requirement Condition of containers Containers labeled and marked properly Beginning of waste accumulation dated Ninety (90) day accumulation Containers holding ignitable or reactive waste are located fifty feet or more from the facilities property line | (Y() () (Y() () () (Y() (Y() () (Y() () | 1. 2. 3. 4. | Previous non-compliances corrected Yes No |
| Kept weekly. Log is maintained are and date drums are shippe | be added to cum paint t which tells d. * Contin | hinde whe ngeno | istration. Two drums of er need labels, Log needs to be a drums are placed in storage of plan needs work. |
| I hereby acknowledge receipt of a copy o apprised of the discrepancies and allege STONED: | f this report and violations no | and do | |
| * Explanation of inspection categories o | | | and the state of t |

^{*} Explanation of inspection categories on reverse side ** C = Compliance NC = Non-Compliance N/A = Not Applicable

September 23, 1982

Mr. Steve Vinson
Industrial Engineer
Simmons Casket Company
P.O. Box 42
Industry Road
Lancaster, Kentucky 40444

RE: EPA I.D. KYD05-007-4889

Dear Mr. Vinson:

The Division of Waste Management, acting under RCRA Phase I Interim Authorization (as published in the April 1, 1981, Federal Register), is withdrawing your U.S. EPA form 3510-1 known as the Federal Hazardous Waste Facility permit application part "A". The U.S. EPA has determined that your company can terminate their interim status as a storage facility without complying with 40 CFR Part 265 Subparts G and H, provided they continue to use the area for storage of hazardous waste which will be removed within the 90 day limit and are in compliance with 40 CFR 262.34. If your company no longer intends to use the area for storage of hazardous wastes, it must be closed in accordance with 40 CFR Part 265 Subpart G and H.

If you have any questions on this, please contact James A. Determann of this office at (502) 564-6716, Ext. 248.

Sincerely,

J. Klex Barber, Director

Division of Waste Management

1. Uly Sale

JAB:JAD:cg

cc: James H. Scarbrough, U.S. EPA Field Supervisor JACKIE SWIGART
SECRETARY



COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

Division of Waste Management March 23, 1983

Mr. Steve Vinson
York Casket Company (formerly Simmons Casket Co.)
P.O. Box 42
Lancaster, Kentucky

Garrad Co.

Dear Mr. Vinson:

During an inspection on March 18, 1933, it was determined that wastes shipped from your facility on March 10, 1983, had been stored for more than 90 days. It is a violation of 401 KAR 32:030, Section 5(2) formerly 401 KAR 2:070, Section 3 (5)(6) to accumulate hazardous wastes for more than 90 days without a storage facility permit.

Although the problem appears to be caused by personnel changes, wastes must be shipped within 90 days. The regulations only allow the Cabinet to grant an extension of up to 30 days if there are unforseen, temporary, uncontrolled circumstan

York Casket Company will be required to obtain a permit for a hazardous waste storage facility if, in the future, we determine that additional violations of KAR 32:030. Section 5(2) exist.

If you have any questions, please feel free to contact me at (502) 564-6716-275.

Yours truly,

Hannah Leonard Int

Hannah Leonard, Supervisor Frankfort Field Office Div. of Waste Management

HL/blp

cc: Carl Schroeder

CHARLOTTE E. BALDWIN SECRETARY



COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

MEMORANDUM

TO:

Caroline P. Haight, Manager

Permit Review Branch

FROM:

Barry Burrus, Chief

Uncontrolled Sites Section

SUBJECT:

Uncontrolled Site Close-out for Simmons Casket Co. Site

Garrard County

DATE:

March 21, 1984

Simmons Casket Co. (now the York Casket Co.) is a manufacturer of wooden and metal caskets. The wastes produced by this facility include solvent waste which are transported to Reclaimed Energy, Inc., Connersville, Indiana by a permitted transporter and non-hazardous paint sludge which is disposed of in a permitted landfill.

Prior to September 23, 1982, this facility was regulated by Part "A" of the Federal Hazardous Waste Facility permit application. This accounts for their inclusion on the ERRIS list. On this date the KYNREPC's Division of Waste Management, acting under RCRA Phase I Interim Authorization, withdrew their Part "A". Investigation of the Division of Waste files has determined that no problems have existed with this company's handling of hazardous waste which would qualify them as an uncontrolled site.

In consideration of the aforementioned investigation, I am recommending no further action to be taken on this site and further recommend that it be removed from the uncontrolled site list.

BB/JC/las

cc:

Hannah Leonard

Bob Prewitt

File EPA

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT | | | | | | 01 STATE | FICATION D2 SITE NUMBER D05007488 | 9 |
|---|--|---|--------------------------|--------------------------------------|--|--|-----------------------------------|-----|
| IL SITE NAME AND LOCATION | | | | | | | | |
| Simmons Caske | ^ | | - | , Box | OR SPECIFIC LOCA | TION IDENTIFIER | | |
| Lancaster | | | 1 | 40444 | Garr | and | 107 COUNTY OB CODE | ONG |
| 31°36'35".0 | LONGIT 84° 34' | 45.0 | | | | | | |
| on objections to SITE issuing from reason public in Site 15 located on His and south through the and south on Huy \$395. | wy #398? Lown of 27 from its | L7 South Lancaste Intersection | which is | h is the stucky. To state Rout | main hig o reach the ce 52 at th | hway run site, travi e center of | ning north elapproximati i town. | dy |
| III. RESPONSIBLE PARTIES | | | | | | | | |
| O1 OWNER (# known) | | | 1 | T (Susness, mail) | | | | |
| Simmons Univers | <u>sal</u> | , , , , , , , , , , , , , , , , , , , | 31 | 2 WA | shing t | on Stru | <u>et</u> | |
| Wellesley Hills | | | MA | 02181 | () | TONE NUMBER | | |
| OT OPERATOR IN known and different from owners YOU K Casket Co (for s | nerly Simm | ons Casket C | | Tisuarese nada | - | | | |
| 09 CITY | | | 10 STATE | 11 ZIP CODE | 12 TELEPH | HONE NUMBER | | |
| Lancaster | | | Ky | 4044 | 4 (606) | 792-2101 | | |
| 13 TYPE OF OWNERSHIP (Check over 88 B. FEDER | AL. | | | _ D.C.ST | ATE DD.COL | INTY DE.MI | JNICIPAL | |
| © F. OTHER: | | (Agency name) | | | | | | |
| 14 OWNER/OPERATOR NOTIFICATION ON FILE | (Specify) | | | | | | | |
| A, RCRA 3001 DATE RECEIVED: | | B. UNCONTROL | LED WAST | E SITE/CEACLA | 1034 DATE REG | CEIVED: MONTH | DAY YEAR & C. NO | NE |
| IV. CHARACTERIZATION OF POTENT | AL HAZARD | | | | | | | |
| 01 ON SITE INSPECTION YES DATE 11 23,93 ON NO MONTH DAY YEAR | BY (Check a C] A. EP/ C] E. LOX | | A CONTRA | ACTOR I F. OTHER: | C. STATE | □ D. OTHEF | CONTRACTOR | |
| <u>.</u> | CONTRA | CTOR NAME(S): | | | | Uptury) | | |
| 02 STE STATUS (Cheekon) S. A. ACTIVE | 1 | 03 YEARS OF OPER | NOTAL 196! Eminibe | *** | Date | □ UNKNOW | N | |
| or description of substances possibly produced thinner whate is so III Trichlorothaned to | RESENT, KNOWN, OI Strant cueste ecycling by pa ents 38401 | tronsported tronsported traited tro | d to R | eclaimed f ex:0,15 | Énergy Inc. errice co. R | . Conners v | ille, Ind. fo Lane, Columbi | ۷, |
| taint Sludge + non-haz | ordous disp | osed of 11 | n pern | veted 1 | endsill. | | | |
| NIA Please refer | | | Part | 3 04 4 | sorm. | | | - |
| V. PRIORITY ASSESSMENT | | | | | | | | |
| | - Consider to Charles Com | piere Part 2 - Waste Info | Aller and L | en 5 · Concretor of | Hazardous Conditions | end insulantal | | |
| 01 PRIORITY FOR INSPECTION (Cheek one. # high o | MEDIUM (magastan required) | C. LOW | e evenindrie Can | 型 D. Ni (Me | UNE hirther aption needed. | complete current dispo | utition form) | |
| 01 PRIORITY FOR INSPECTION (Check one. if high o A. HIGH (Inspection required primarity) VI. INFORMATION AVAILABLE FROM | MEDIUM (majoritan /majarnas) | (Inspect on time | | | | complete current dispo | | 065 |
| 91 PRIORITY FOR INSPECTION (check one. if high o | MEDIUM (magacition required) | | EMPSA! | in) (Ma | huther adian needed. | | 03 TELEPHONE NUM | |

Env. Protection Div. of waste Mart (502) 564-6716

1502 1564 - 6716 08 DATE

3 , 20, 84

MONTH DAY YEAR

Lim Childers (beologist)
EPA FORM 2070-12 (7-81)

| | | A |
|---|----------|----|
| 1 | - | -1 |

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

1. IDENTIFICATION

01 STATE | 02 SITE NUMBER

KY | DOS 007 4889

| ☐ A. SOLIO ☐ E. SLURRY THUSE DO | | of weste quantities undependent) | Y AT SITE 0.3 WASTE CHARACTERISTICS (Check at Inal 200) | | IDLE FINGHIV | VOLATILE SIVE | |
|---------------------------------|---------------------------------|-------------------------------------|---|---|--------------|------------------|--------------------------------|
| C C. SLUDGE | N/A = G. GAS | CUBIC YARDS | | TALTOXIC TELSOLUBLE TILHIGHLY VOLATIL B. CORROSIVE TELSOLUBLE TILHIGHLY VOLATIL C. RADIOACTIVE TILHIGHT TELSOLUBLE TILHICOMPATIBLE M. NOTAPPLICABLE M. NOTAPPLICABLE M. NOTAPPLICABLE | | | VE PATIBLE DOLVABLE |
| C D. OTHER | (Specify) | NG. OF DRUMS | | NA | | M. NOI APPONABLE | |
| IL WASTE T | YPE | | | | · | | |
| CATEGORY | SUBSTANCE | AME | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS | | |
| SLU | SLUDGE | | | | | • | |
| OFM | OILY WASTE | | | | | | |
| SOL | SOLVENTS | | 1// | 1 | | | <u> </u> |
| PSD | PESTICIDES | | 14// | | | | |
| oc¢ | OTHER ORGANIC C | HEMICALS | | | | | |
| IOC | INORGANIC CHEMIC | ALS | | | | | |
| ACD | ACIDS | | | | <u> </u> | | |
| BAS | BASES | | | | | | |
| MES | HEAVY METALS | | | | | | · |
| V. HAZARD | OUS SUBSTANCES (See A | poenas for most frequer | ney cred CAS Numbers) | | | | T |
| 1 CATEGORY | 02 SUBSTANCE N | AME | 03 CAS NUMBER | 04 STORAGE/DIS | POSAL METHOD | 05 CONCENTRATION | 08 MEASURE OF CONCENTRATION |
| | | | <u> </u> | | | | <u> </u> |
| | | | | · | | <u> </u> | <u> </u> |
| | | | | · | | | |
| | NIN | | <u> </u> | | | <u> </u> | |
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| V SEEDSTO | CKS (See Appendix for CAS Munic | | <u> </u> | L | | | <u> </u> |
| CATEGORY | | | 02 CAS NUMBER | CATEGORY | 01 FEEOST | OCX NAME | 02 CAS NUMBER |
| | OT PEEDS TO | A NAME | OZ GASTROMOETI | FOS | | | |
| FDS | | , , | - | FOS | 77 | 1.1 | |
| FOS | | / // | | | <i>N</i> | / // | |
| , FOS | | <u> </u> | | FDS | <u> </u> | | |
| FDS | | | | FDS | | | L |
| | SEPC'S Divisi | | | | <u></u> | | |
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE | 02 SITE NUMBER | | 105 00 7 4889

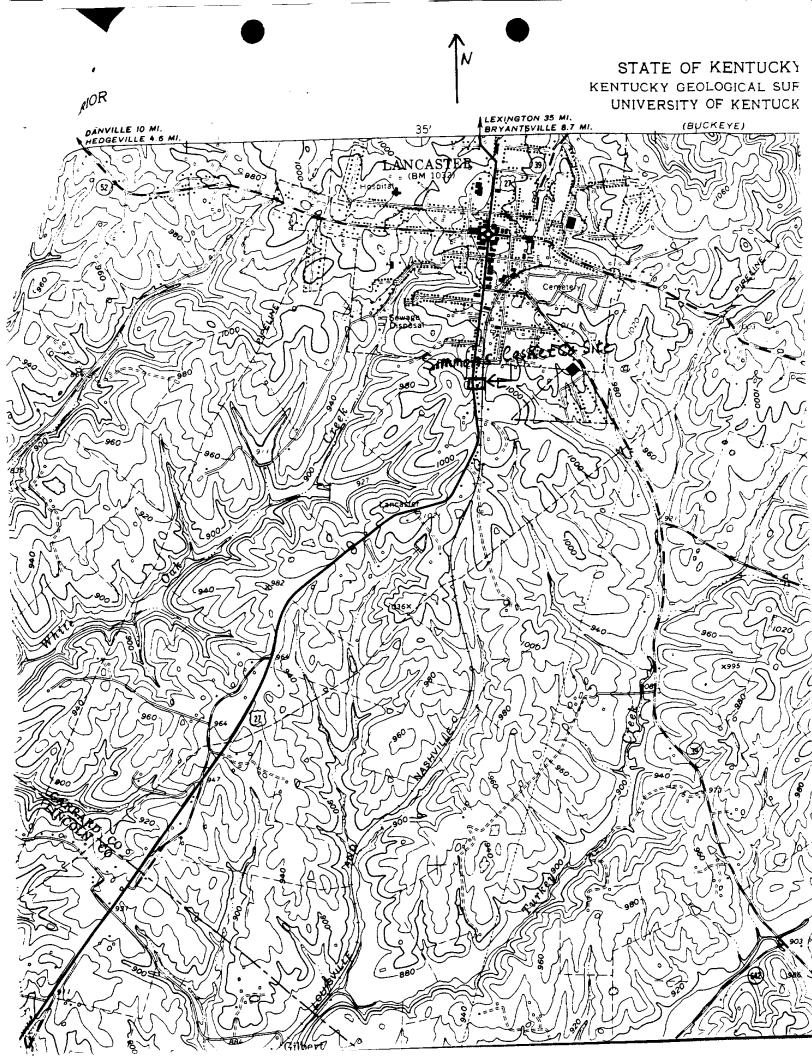
| HAZARDOUS CONDITIONS AND INCIDENTS | | | |
|--|--|----------------|--------------|
| A GROUNDWATER CONTAMINATION BY POPULATION POTENTIALLY AFFECTED: | 02 C OBSERVED (DATE:04 NARRATIVE DESCRIPTION | _) ☐ POTENTIAL | □ ALLEGED |
| | N/A | | |
| 11 © B. SURFACE WATER CONTAMINATION 13 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION | _) □ POTENTIAL | C ALLEGED |
| | NIA | | |
| 11 C. CONTAMINATION OF AIR 13 POPULATION POTENTIALLY AFFECTED: | 02 C OBSERVED (DATE: 04 NARRATIVE DESCRIPTION | _) ☐ POTENTIAL | □ ALLEGED |
| | NA | | |
| 11 CI D. FIRE/EXPLOSIVE CONDITIONS 3 POPULATION POTENTIALLY AFFECTED: | 02 🗆 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION | _) □ POTENTIAL | ☐ ALLEGED |
| | NIA | | - |
| DI DE. DIRECT CONTACT 13 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION | _) ☐ POTENTIAL | C ALLEGED |
| | N/A | | |
| 11 G F. CONTAMINATION OF SOIL 23 AREA POTENTIALLY AFFECTED: (Acres) | 02 G OBSERVED (DATE: |) DOTENTIAL | C ALLEGED |
| | N/A | | |
| 11 G. DRINKING WATER CONTAMINATION 13 POPULATION POTENTIALLY AFFECTED: | 02 GBSERVED (DATE:04 NARRATIVE DESCRIPTION |) DOTENTIAL | ☐ ALLEGED |
| | N/A | | |
| D1 H. WORKER EXPOSURE/INJURY D3 WORKERS POTENTIALLY AFFECTED: | 02 🗆 OBSERVED (DATE: |) DOTENTIAL | C ALLEGED |
| | N/A | | |
| 01 [] I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION | _) O POTENTIAL | ☐ ALLEGED |
| | N/A | | |

| 3 | E | 7/ | 4 |
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| HAZ | A DDC | VII C | ~ |

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

| PART 3 - DESCRIP | TION OF HAZARDOUS CONDITIONS AND INCIDENTS | s KYL | 050074889 |
|---|---|---|---|
| II. HAZARDOUS CONDITIONS AND INCIDENTS | (Cohmuna) | | |
| 01 ☐ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | 02 G OBSERVED (DATE:) | D POTENTIAL | C ALLEGED |
| | N/A | | |
| 01 G K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species) | 02 GBSERVED (DATE:) | O POTENTIAL | C ALLEGED |
| | NIA | | |
| 01 D L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION | 02 🖸 OBSERVED (DATE:) | ☐ POTENTIAL | C ALLEGED |
| | NIA | | |
| 01 M. UNSTABLE CONTAINMENT OF WASTES (Spills/unet/Intenting Aguids/leating drums) 03 POPULATION POTENTIALLY AFFECTED: | 02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | D POTENTIAL | C ALLEGED |
| | NIA | | |
| 01 © N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION | 02 (1) OBSERVED (DATE:) | - POTENTIAL | ☐ ALLEGED |
| | NIA | | |
| 01 □ 0. CONTAMINATION OF SEWERS, STORM DI 04 NARRATIVE DESCRIPTION | RAINS, WWTPS 02 - OBSERVED (DATE:) | D POTENTIAL | ☐ ALLEGED |
| . | NIA | | |
| 01 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION | 02 🗆 OBSERVED (DATE:) | POTENTIAL | C) ALLEGED |
| | NIA | | - |
| 05 DESCRIPTION OF ANY OTHER KNOWN, POTEN | MAL, OR ALLEGED HAZARDS | | |
| - | N/A | | |
| IIL TOTAL POPULATION POTENTIALLY AFFEC | CTED: PIA | | · · · · · · · · · · · · · · · · · · · |
| IV. COMMENTS | | | |
| Prior to september 13, 1982, this facility permit application. This of Kyngere's Division of waste manage part" A". No problems have been detected as an uncontrolled site. | s facility was regulated by part 4° of the excounts for their inclusion on the ERRIS I quent, acting under RCRA phase I Interm Auted in when honding of horordous waste which | e Federal Ha ist. On this attorization, is would guali | tordous culaste date the withdraw cheir ty ele facility |
| V. SOURCES OF INFORMATION (Cite specific referen | icos. s. g., state files. sample ensiyate, respirtaj | | |
| KYNREPC'S Division of | waste Management Files | | |
| | | | |



| Sit | 11 11 Simmons Casket Company (York Casket Co.) | | |
|-----|---|-------------|-------------|
| Cit | y Lancaster State Ky | | |
| Fac | ility 1.D. Number KYD050074889 | | |
| lyp | e of Facility: Generator Transporter | TSD | |
| I. | RCPA APPLICABILITY | yes | cn |
| | Does the facility have RCRA interim status? | · | |
| | Does the facility have a final or post-closure permit? If so, date issued | | |
| | Is the facility a non-notifier that has been identified by States or EPA? | | |
| | Is the facility a known or possible protective filer? | · | |
| | Have RCRA wastes been stored onsite for Longer than 90 days since November 19, 1980? | | |
| | Have RCRA wastes been disposed onsite since November 19, 1980? | | |
| | STOP HERE IF ALL ANSWERS TO QUESTIONS IN SECTION I A | CH BEL | |
| II. | FINANCIAL STATUS | yes | no |
| | Is the facility owned by an entity that has filled for bankruptcy under federal laws (Guapher 7 or 11) or State laws? | | · · · · · · |
| | If yes, what has it filed under? | | |
| | Chapter 7 Chapter 11 Other | | |

July 22, 1985

Mr. Carl H. Tiedt Hallmark Casket Co. P.O. Drawer G Marshfield, MO. 65706

RF: York Casket - EPA I.D. KYD05-007-4889 - Garrard Co.

Dear Mr. Tiedt:

This letter is in response to your April 10, 1985, letter requesting a change in your generator status for your Kentucky site. We have reviewed your request and concur with your determination. Therefore, we are changing your generator status to that of closed. We will retain your EPA Identification Number and if at some time in the future your site becomes a hazardous waste generator it will only be necessary for you to register that activity with this office.

If you have any questions, please feel free to contact James Determann of this office at (502) 564-6716, Ext. 231.

Sincerely,

Parist in

Caroline Patrick Haight Manager, Permit Review Branch Division of Waste Management

CPH:JAD:cg

cc: Hannah Helm, Area Supervisor Ann Cole, U.S. EPA Region IV Tim Hockensmith, Revenue Cabinet SOLID WASTE BRANCH ONLY:



COMMONWEALTH OF KENTUCKY TURAL RESOURCES AND ENVIRONMENTAL PROTECTION CAL DEPARTMENT FOR ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT 18 REILLY ROAD FRANKFORT, KENTUCKY 40801

| Date | Approved/Denied 5/24/8 |
|------|------------------------|
| Coun | |

MEW NEW UPDATI

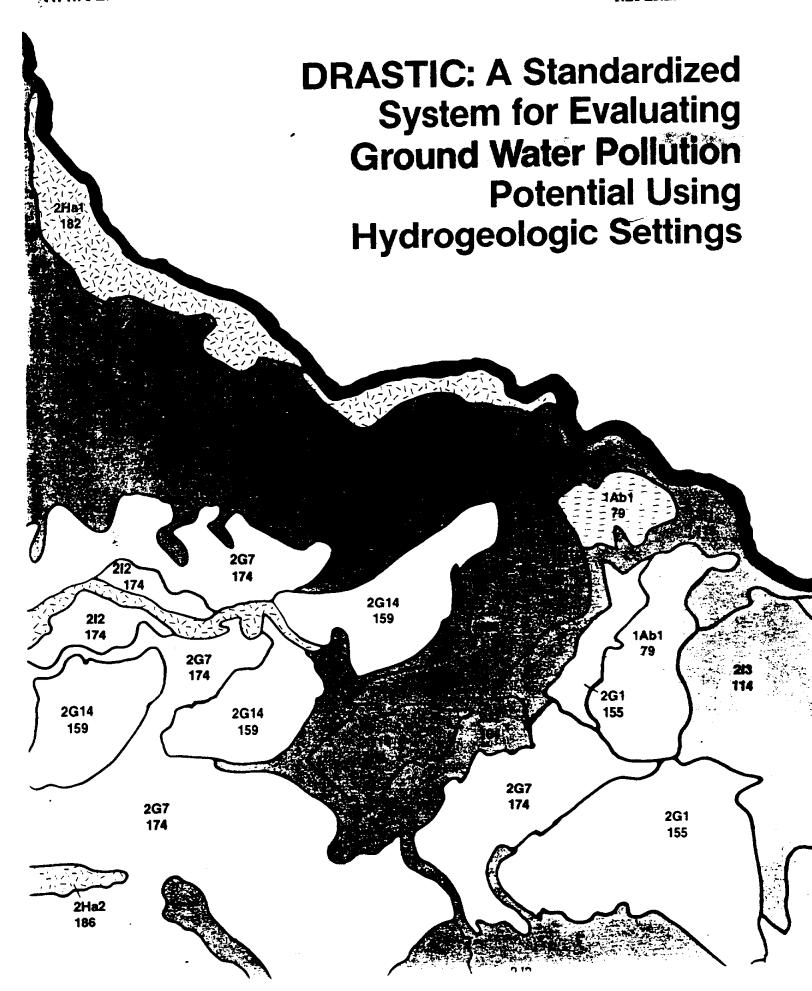
DIVISION OF WASTE MANAGEMENT SOLAPPLICAPTION TO ACCEPT AN ADDITIONAL WASTE STREAM (Prepare an individual application for each waste stream)

| | (1.000.00.00.00.00.00.00.00.00.00.00.00.0 |
|------|--|
| | - I. WASTE GENERATOR INFORMATION |
| Α. | GENERATOR IDENTIFICATION: |
| 1. | Name: Allison Abrasives, Inc. |
| | Mailing Address: Box 192, Lancaster, KY 40444 |
| | Address Where Waste Generated: 163 Industry Road, Lancaster, KY 40444 |
| | Contact Person: Lynn Osborne 5. Telephone: 606/792-3033 |
| | WASTE DESCRIPTION: |
| 1. | Waste Name: Process waste generated from abrasive cut-off wheel manufacture |
| | Describe source of the waste including industrial process: Waste generated from abrasive grains, |
| | fillers, and resins during the manufacture of cut-off wheels. |
| | |
| | Is the waste hazardous under 401 KAR 31:010, Section 3, which includes the characteristics of 401 KAR 31:030 and to lists of 401 KAR 31:040? Yes No (If yes, contact your local Division of Waste Management Field Office further assistance. See instructions for locations and telephone numbers.) Let the waste an "exempt" hazardous waste under the regulatory cites in the Instructions? Yes No |
| | Regulatory Cite: |
| 4. | Cured dust from Waste Condition Upon Generation: Solid Semi-solid Liquid Other dust collectors |
| 5. | Waste Treatment Description: Uncured waste material is cured by heat to drive off any free |
| | emissions. Dust emissions have been cured during manufacturing process. |
| 6. | Disposal Site Name: Tri-K Landfill 7. Permit # 069.04 |
| 8. | Waste Condition Upon Disposal: Solid Semi-solid Liquid Other Dust |
| 9. | Waste Amount: 55-gal. drums or Cubic Yards (Note: 1 cubic yard = 202 gallon |
| | Frequency: Per Month [X] Per Year One-Time Only CONTAINER TYPE(See Instructions): |
| | Paper bag Fiber drum or cardboard box Metal or plastic drum |
| | Plastic bag Double bagged in container Other (specify) |
| D. | Bulk Mixed with plant trash FEE: Check payable to "KENTUCKY STATE TREASURER." (MAIL CHECK DIRECTLY TO SOLID WASTE BRAN- DIVISION OF WASTE MANAGEMENT, 18 REILLY ROAD, FRANKFORT, KENTUCKY 40601) Check for \$50.00 # CK Ko 17973 |
| l ce | SOLID WASTE GENERATOR CERTIFICATION: rtify that the information set forth in Section I pertaining to the waste is true and correct and that the waste is not regulated as a hazardous ler 401 KAR Chapter 31 which requires storage, treatment or disposal at a hazardous waste facility under 401 KAR Chapters 32 through stand that failure to properly manage a hazardous waste could lead to possible civil and criminal penalties under KRS Chapter 224 or the Revention and Recovery Act of 1976, (Public Caw 94-580), as amended. |
| Sig | nature of Authorized Agent: |
| Nai | me of Authorized Agent (typed or printed): Lynn Osborne Title: Plant Manager |

| 1 | Allison Abrasives |
|------------|--|
| 'ASI | ENAME: Baghouse and Kiln Waste DATE: |
| | II. LABORATORY INFORMATION |
| A. | LABORATORY IDENTIFICATION: |
| | Laboratory Name: T.M. REGAN, INC. |
| 2. | Mailing Address: 377 Waller Avenue, Lexington, Kentucky 40504 |
| 3 . | Contact Person: Charles E. Fouser 4. Telephone: 606-254-3831 |
| | SAMPLE COLLECTION: |
| | Sampler Name: |
| | Company: |
| - | Container Type: Glass |
| | Sample Type: Composite XX Grab Other (explain) |
| | Size of Container: One gallon |
| 4. | Preservative: NONE |
| D. | WASTE CHARACTERISTICS: |
| | Does the waste exhibit the characteristic of a hazardous waste as described in 401 KAR 31:030: ARACTERISTICS YES NO ANALYSIS |
| - | Ignitability |
| | Corrosivity D A pH 9.6 |
| | activity |
| | EP Toxicity |
| 2. | Is the waste characteristically hazardous? Yes X No |
| 3. | Waste passed paint filter test? N/A Yes No 4. Solids Content: NO FREE LIQUIDS |
| E. | LABORATORY CERTIFICATION: |
| | rtify the above results are true and correct and analyses were conducted in accordance with EPA publication SW-846 est Methods for Evaluating Solid Waste, Physical/Chemical Methods.* |
| | nature of Laboratory Analyst: |
| 173 | ***ATTACH/LABORATORY RESULTS*** |
| F. 1. | MATERIAL SAFETY DATA SHEET: Attached Yes No |
| | |
| | III. TRANSPORTER INFORMATION |
| A. | HAULER IDENTIFICATION: |
| 1. | Hauler Name: Hal-Co Sanitation |
| 2. | Mailing Address: 700 Dillehay Street, Danville, KY 40422 |
| 3. | Contact Person: Hal Stevens 4. Telephone: 606/236-7700 |
| В. | |
| 1. | Yauler Name: |
| 2. | Mailing Address: |
| 3. | Contact Person: 4. Telephone: |

| ÆNE | RATOR: Allison A | brasives, l | nc. | | | - | | | | PAGE 3 O |
|--------------|--|--|------------------------|--|---------------------------------------|---------------|---------------|----------------------------------|--------------------|-------------|
| VAST | ENAME: Baghouse | and Kiln Wa | ste | | | | | | DATE: | |
| | | | IV. L | ANDFIL | L INFO | RMATION | | | | |
| A. | DISPOSAL SITE II | DENTIFICAT | rion: | | | | | - | | |
| 1. | Landfill Name:T | | | | | | 2. | Permit #: _ | 069.04 | |
| 3. | Mailing Address: 3 | 445 Skyline | Drive, | Stanfo | rd, KY | 40484-94 | | | | |
| 4. | Contact Person:D | ale Kirkpat | rick | | | | 5. | Telephone: | 606/365-7806 | |
| B. | INSTRUCTIONST | O GENERAT | OR: | | | | | | | |
| 1. | Time of Day Waste is | to be Delivere | :d: | | | | | | | |
| 2. | Special handling' req | uirements: | | | | | | | | |
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| <u> </u> | DISPOSAL METH | OD: | | | | | | | | |
| | ☐ Bury in container | | with garha | age 🗀 | Buryat | bottom of lif | ft. | ☐ Per EP | A asbestos procedu | re |
| | Other | . уз. от | | -64 (| | | | | | |
| I ce of d | LANDFILL CERTI rtify that I will never L isposal described in Section ler this permit modification | If approved, will IV. C. above. Fa | ilure to use t | he described | l, approved | procedure ma | | | | |
| յ։ Տան | ire of Authorized Agent | for Landfill: | Eichen | A Be | print | Lefer | . | Date: | mu. 28 | 195, |
| Na | me of Authorized Agent (Ty) | | | | | | | Title: | MALL 28 OWHER | |

| ENTRATOR: ALLISON ABRASIVES | , INC. PAGE 4 OF |
|--|---|
| ASTENAME: WASTE GENERATED | FROM ABRASINE GRAINS DATE: 5/24/89 |
| v. division of was | TE MANAGEMENT FINAL DETERMINATION |
| A. GENERAL INFORMATION: 1. Landfill Name: TRI-K LANDFILL | 2. County: LINCOLN |
| 3. Landfill Permit #: 069.04 B. APROVAL: | 4. Expires: 9-30-90 |
| Resources and Environmental Protection Cabin application to allow disposal of the waste desc | of Waste Management, Department for Environmental Protection, Natural net, the Division modifies the landfill permit cited in Section IVA of this cribed herein. The Division reserves the right to modify or revoke this e of a valid permit or if disposal is not in accordance with description herein |
| | |
| | |
| Date: MAY 24, 1989 | Solid Waste Branch Manager |
| | Division of Waste Management Vaste Management, Department for Environmental Protection, Natural et, the Division of Waste Management rejects this application for the |
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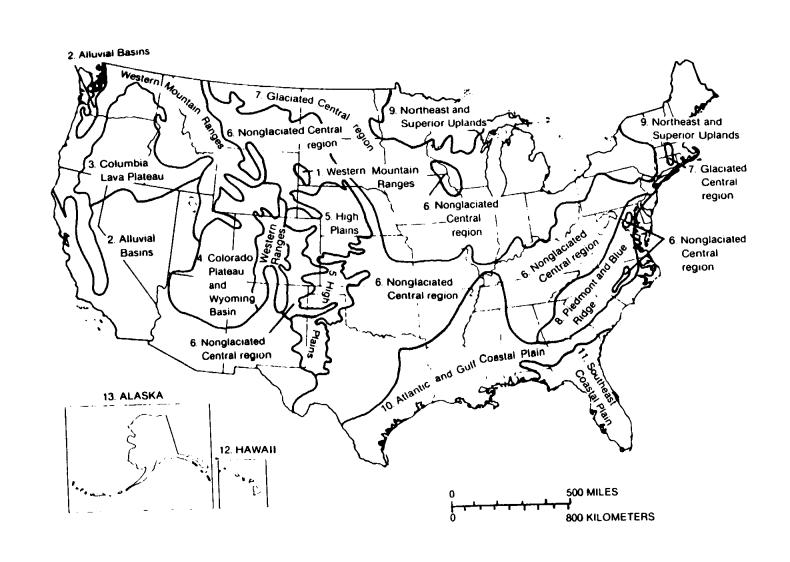
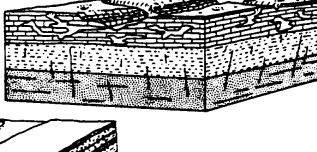
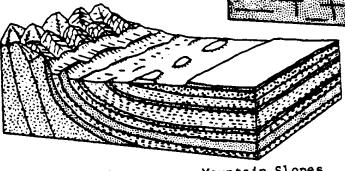


Figure 1. Ground-water regions of the United States (After Heath, 1984).

6. NONGLACIATED CENTRAL GROUND-WATER REGION







| 6A 6B | Mountain Slopes Alluvial Mountain Valleys |
|----------|---|
| 6C | Mountain Flanks Alternating Sandstone, Limestone and |
| 6Da | chale - Thin SOIL |
| 6Db | Alternating Sandstone, Limestone and Shale - Deep Regolith |
| 6E | Solution Limestone |
| 6Fa | River Alluvium With Overbank Deposits |
| 6Fb | River Alluvium Without Overbank Deposits |
| 6G | Braided River Deposits |
| 6H | Triassic Basins |
| 61 | Swamp/Marsh |
| 6J | Metamorphic/Igneous Domes and Fault |
| 6K | Blocks Unconsolidated and Semi-consolidated Aquifers |
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6. NONGLACIATED CENTRAL REGION

(Thin regolith over fractured sedimentary rocks)

The nonglaciated Central region is an area of about 1,737,000 km² extending from the Appalachian Mountains on the east to the Rocky Mountains on the west. The part of the region in eastern Colorado and northeastern New Mexico is separated from the remainder of the region by the High Plains region. The Nonglaciated Central region also includes the Triassic Basins in Virginia and North Carolina and the "driftless" area in Wisconsin, Minnesota, Iowa, and Illinois where glacial deposits, if present, are thin and of no hydrologic importance. The region is a topographically complex area that ranges from the valley and Ridge section of the Appalachian Mountains on the east westward across the Great Plains to the foot of the Rocky Mountains. It includes, among other hilly and mountainous areas, the Ozark Plateaus in Missouri and Arkansas. Altitudes range from 150 m above sea level in central Tennessee and Kentucky to 1,500 m along the western boundary of the region.

The region is also geologically complex. Most of it is underlain by consolidated sedimentary rocks that range in age from Paleozoic to Tertiary and consist largely of sandstone, shale, carbonate rocks (limestone and dolomite). and conglomerate. A small area in Texas and western Oklahoma is underlain by gypsum. Throughout most of the region the rock layers are horizontal or gently dipping. Principal exceptions are the Valley and Ridge section of the Wichita and Arbuckle Mountains in Oklahoma, and the Ouachita Mountains in Oklahoma and Arkansas, in all of which the rocks have been folded and extensively faulted. Around the Black Hills and along the eastern side of the Rocky Mountains the rock layers have been bent up sharply toward the mountains and truncated by erosion. The Triassic Basins in Virginia and North Carolina are underlain by moderate to gently dipping beds of shale and sandstone that have been extensively faulted and invaded by narrow bodies of igneous rock. These basins were formed in Triassic time when major faults in the crystalline rocks of the Piedmont resulted in the formation of structural depressions up to several thousand meters deep and more than 25 km wide and 140 km long.

The land surface in most of the region is underlain by regolith formed by chemical and mechanical breakdown of the bedrock. In the western part of the Great Plains the residual soils are overlain by or intermixed with eolian (wind-laid) deposits. The thickness and composition of the regolith depend on the composition and structure of the parent rock and on the climate, land cover, and topography. In areas underlain by relatively pure limestone, the regolith consists mostly of clay and is generally only a few meters thick. Where the limestones contain chert and in areas underlain by shale and sandstone, the regolith is thicker, up to 30 m or more in some areas. The

chert and sand form moderately permeable soils, whereas the soils developed to shale are finer grained and less permeable.

The principal water-bearing openings in the bedrock are fractures along which the rocks have been broken by stresses imposed on the Earth's crust at different times since the rocks were consolidated. The fractures generally occur in three sets. The first set, and the one that is probably of greatest importance from the standpoint of ground water and well yields, consists of fractures developed along the contact between different rock layers, in other words, along bedding planes. Where the sedimentary layers making up the bedrock are essentially horizontal, the bedding-plane fractures are more or less parallel to the land surface. The two remaining sets of fractures are essentially vertical and thus cross the bedding planes at a steep angle. The primary difference between the sets of vertical fractures is in the orientation of the fractures in each set. For example, in parts of the region one set of vertical fractures is oriented in a northwest-southeast direction and the other set in a northeast-southwest direction. The vertical fractures facilitate movement of water across the rock layers and thus serve as the principal hydraulic connection between the bedding-plane fractures.

In the parts of the region in which the bedrock has been folded or bent, the occurrence and orientation of fractures are more complex. In these areas the dip of the rock layers and the associated bedding-plane fractures range from horizontal to vertical. Fractures parallel to the land surface, where present, are probably less numerous and of more limited extent than in areas of flat-lying rocks.

The openings developed along most fractures are less than a millimeter wide. The principal exception occurs in limestones and dolomites, which are more soluble in water than most other rocks. Water moving through these rocks gradually enlarges the fractures to form, in time, extensive cavernous openings or cave systems. Many large springs emerge from these openings; one in this region is Big Spring, in Missouri, which has an average discharge of 36.8 m3sec-1.

Recharge of the ground-water system in this region occurs primarily in the outcrop areas of the bedrock aquifers in the uplands between streams. Precipitation in the region ranges from about 400 mm per year in the western part to more than 1,200 mm in the eastern part. This wide difference in precipitation is reflected in recharge rates, which range from about 5 mm per year in west Texas and New Mexico to as much as 500 mm per year in Pennsylvania and eastern Tennessee. Discharge from the ground-water system is by springs and seepage into streams and by evaporation and transpiration in areas where the water table is within a few meters of land surface.

The yield of wells depends on (1) the number and size of fractures that are penetrated and the extent to which they have been enlarged by solution, (2) the rate of recharge, and (3) the storage capacity of the bedrock and regolithyields of wells in most of the region are small, in the range of 0.01 to 1 $m3min^{-1}$ (about 2.5 to about 250 gallons per minute), making the Nonglaciated Central region one of the least favorable ground-water regions in the

country. Even in parts of the areas underlain by cavernous limestone, yields are moderately low because of both the absence of a thick regolith and the large water-transmitting capacity of the cavernous openings which quickly discharge the water that reaches them during periods of recharge.

The exceptions to the small well yields are the cavernous limestones of the Edwards Plateau, the Ozark Plateaus, and the Ridge and Valley section. The Edwards Plateau in Texas is bounded on the south by the Balcones Fault Zone, in which limestone and dolomite up to 150 m in thickness has been extensively faulted. The faulting has facilitated the development of solution openings which makes this zone one of the most productive aquifers in the country. Wells of the City of San Antonio are located in this zone; individually, they have yields of more than 60 m3min-1.

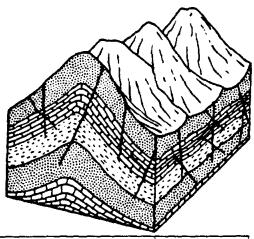
Another feature that makes much of this region unfavorable for ground-water development is the occurrence of salty water at relatively shallow depths. In most of the Nonglaciated Central region, except the Ozark Plateaus, the Ouachita and Arbuckle Mountains, and the Ridge and Valley section, the water in the bedrock contains more than 1,000 mg/l of dissolved solids at depths less than 150 m. Most of the salty water is believed to be connate—that is, it was trapped in the rocks when they emerged from the sea in which they were deposited. Other possible sources include: (1) seawater that entered the rocks during a later time when the land again was beneath the sea and (2) salty water derived from solution of salt beds that underlie parts of the region.

The presence of connate water at relatively shallow depths is doubtless due to several factors, including, in the western part of the area, a semiarid climate and, consequently, a small rate of recharge. Other factors probably include an extremely slow rate of ground-water circulation at depths greater than a few hundred meters.

NON-GLACIATED CENTRAL

(6A) Mountain Slopes

This hydrogeologic setting is characterized by relatively steep slopes on the side of mountains or hills, a thin soil cover and fractured bedrock. Ground water is obtained primarily from the fractures in the bedrock which may be of sedimentary, metamorphic or igneous origin but which are commonly alternating sedimentary layers, and also from bedding planes between the sedimentary layers. The fractures provide only localized sources of ground water and well yields are typically limited. Although precipitation may be significant in some areas, due to the ateep slopes, thin soil cover and small storage capacity of the fractures, runoff is significant and ground—water recharge is low. Water levels are extremely variable but are common! Moderately deep. Perched ground—water zones are common. These sedimentary rocks may range in attitude from nearly horizontal, as in parts of the western Appalachian Plateau, to steeply dipping, as seen in the Valley and Ridge province, the Wichita, Arbuckle and Ouachita Mountains, the Black Hills, and on the eastern slopes of the Rockies.



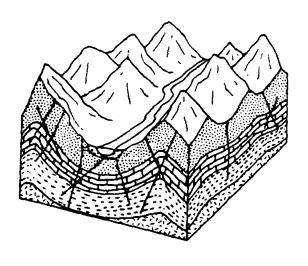
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|------------------------|-----------------------------------|--------|---------|--------|
| SETTING 6 A Mountain | ETTING 6 A Mountain Slopes GENERA | | | L |
| FEATURE | RANGE | MEIGHT | RATING | HUMBER |
| Depth to Water | 30-50 | 5 | 5 | 25 |
| Net Recharge | 0-2 | • | , | |
| Aquifer Media | Bedded SS, LS, SM Sequences | 3 | | 18 |
| SO11 Media | Thin or Absent | 3 | 10 | 20 |
| Topography | 12-18% | , |) | , |
| Impact Vadose lone | Bedded LS, SS, SH | 5 | 6 | 30 |
| Hydraulic Conductivity | 1+100 | 1 | 1 | 3 |
| | | Drasta | c India | 103 |

| SETTING 6 A Mountain | ETTING 6 A Mountain Slopes | | | |
|------------------------|--------------------------------|----------------|------------------|-------|
| FEATURE | RANGE | WEIGHT | RATING | NUMBE |
| Deptn to Water | 30-50 | 5 | 5 | 25 |
| Net Recharge | 0-2 | • | , | |
| Aquifar Hedia | Bedded SS: LS; SH Sequences | 3 | • | 18 |
| Boil Media | Thin or Absent | 3 | 10 | 50 |
| Topography | 12-186 | 3 | 3 | , |
| Impact Vadose Ione | Redded LS, SS, SH | • | 6 | 24 |
| Hydraulic Conductivity | 1-100 | 2 | 1 | 2 |
| | | Pest: Drast | cide Le Index | 132 |

NON-GLACIATED CENTRAL

(6B) Alluvial Mountain Valleys

This hydrogeologic setting is characterized by thin boulder, alluvium which overlies fractured bedrock of sedimentary, metasorphic or igneous origin but which is commonly comprised of alternating sedimentary layers. The alluvium, which is derived from the surrounding slopes serves as a localized source of water. Water is obtained from and and gravel layers which are interspersed between finer-gratined deposits. Surficial deposits have typically weathered to a sandy loam. Water levels are relatively shallow but may be extremely variable. Ground water may also be obtained from the fractures in the underlying bedrock which are typically in direct hydraulic connection with the overlying alluvium.



| SETTING 6 8 Alluvial | Mountain Valleys | GENERAL | | | |
|------------------------|--------------------------------|---------|--------|--------|--|
| PEATURE | RANCE | MEZGKT | RATING | HUMBEI | |
| Depth to Water | 15-30 | 5 | , | 35 | |
| Net Rocharge | 4-7 | • | 1 | 24 | |
| Aquifer Media | Sand and Gravel | ı | • | 24 | |
| Scil Media | Sandy Loam | 2 | 6 | 12 | |
| Topography | 2-6% | , | , | , | |
| Impact Vadose Zone | 5 & G w/ siq. Silt and Clay | 5 | 6 | 30 | |
| lydraulic Conductivity | 700-1000 | , | - 6 | 18 | |

| TILLING P B WITHALL | i Houstair valiage | 1 - 763 | TITIDE | |
|---------------------|--------------------------------|---------|---------------|--------|
| FEATURE | RANGE | WEIGHT | RATING | NUMBER |
| pth to Water | 15-30 | 5 | , | 35 |
| t Recharge | 4-1 | 4 | 6 | 26 |
| ulfer Media | Sand and Gravel | 3 | 1 | 24 |
| oll Media | Sandy Loam | 3 | 6 | 30 |
| pography | 2-61 | 3 | , | 27 |
| spect Vedose Ione | S & G w/ siq. Silt and Clay | • | 4 | 24 |
| | | | $\overline{}$ | |

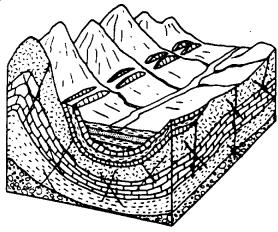
4 8 511 must mountain Valleys

Hydraulic Conductivity

Pesticide Grantic Index 17 HON-GLACIATED CENTRAL

(6C) Mountain Flanks

this hydrogeologic setting is characterized by moderate rhis hydrogeologic and moderately-dipping, fractured, copographic relief and moderately-dipping, fractured, copographic relief and moderately-dipping, fractured, copographic resident and acceptance of the consolidated, sedimentary rocks. Soil cover is usually consolidated than on the mountain slopes and punished than consolidated, statement, locks. Soil cover is usuall thicker than on the mountain slopes and typically has thicker to a sandy loam. Although annual to a sandy loam. chicker than on the mountain propes and typically has resthered to a sandy loam. Although precipitation can be reficant. ground-water recharge is only property of the sandy loam. weathered to a sandy loam. Although precipitation can be weathered to a ground-water recharge is only moderate due to significant, ground-water recharge is only moderately deep the slope. Water levels are typically moderately deep the slope. The sountsin flanks although they are extremely variable. The mountain flanks although the recharge area for aquifers which are confined serve as the recharge area for adjacent areas. Ground water is obtained from the in adjacent areas. In adjacents and an array rocks or from fractures in the perseable sedimentary rocks. The sedimentary permeable segmentary rocks or from fractures in the segmentary rocks. The segmentary rocks may be underlain segmentary rocks be deducted bedrock of igneous, metamorphic or segmentary by fractured bedrock of igneous, setamorphic or segmentary beds may be origin which yield little water. Sedmentary beds may be origin that the dispersion of the higher either horizontal or dipping, as indicated for the higher either horizontal or dipping, as indicated for the higher either horizontal or dipping as similar sequences. either mountain slopes (6A), and have a similar geographic distribution.



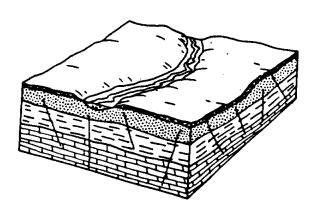
| SETTING & C Mountain | ETTING 6 C Mountain Flanks | | | GENERAL | | | |
|------------------------|--------------------------------|--------|---------|---------|--|--|--|
| FEATURE | RANGE | WEIGHT | RATING | NUMBER | | | |
| Depth to Water | 30-50 | 5 | 5. | 25 | | | |
| et Recharge | 2-4 | • | 3 | 12 | | | |
| Aquifer Media | Bedded SS, LS, SH Sequences | 3 | • | 18 | | | |
| Soil Media | Sandy Loam | 2 | ١, | 12 | | | |
| Topography | 6-12% | 1 | 5 | 5 | | | |
| Impact Vadose Zone | Bedded LS. SS. SH | 5 | 6 | 10 | | | |
| Hydraulic Conductivity | 1-100 | 3 | 1 | 3 | | | |
| | | Drasti | c Index | 105 | | | |

| SETTING & C Mountain | Flanks | | PESTICI | DE |
|------------------------|--------------------------------|--------|----------|--------|
| FEATURE | RANGE | WEIGHT | RATING | HUMBEI |
| Depth to Water | 30-50 | 5 | 5 | 25 |
| Net Recharge | 2-4 | 4 |) | 12 |
| Aquafer Media | Bedded 55, LS, SH Sequences | 3 | 6 | 18 |
| Soil Media | Sandy Loam | 5 | • | 30 |
| Copography | 6-126 | 3 | • | 15 |
| Impact Vadose Ione | Bedded LS, SS, SH | 4 | 6 | 24 |
| Hydraulic Conductivity | 1-100 | 2 | 1 | 2 |
| | | | re index | 126 |

NON-GLACIATED CENTRAL

(6Da) Alternating Sandstone, Limestone and Shale - Thin Soil

This hydrogeologic setting is characterized by low to moderate topographic relief, relatively thin loamy soils overlying horizontal or slightly dipping alternating layers of fractured consolidated sedimentary rocks. Ground water is obtained primarily from fractures along bedding planes or intersecting vertical fractures. Precipitation varies widely in the region, but recharge is moderate where precipitation is adequate. Water levels are extremely variable but on the average moderately shallow. Shale or clayey layers often form aquitards, and where sufficient relief is present, perched ground water zones of local domestic importance are often developed.



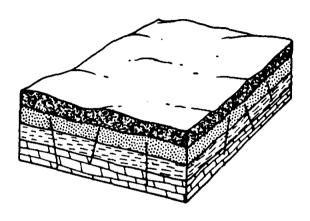
| SETTING 6 De Alternati | ng Sandstone, le - Thin Soil | 1 | GENERA | L . |
|------------------------|---------------------------------|--------|---------|--------|
| FEATURE | RANGE | MEIGHT | RATING | NUMBER |
| Depth to Water | 15-30 | 5 | , | 35 |
| Net Recharge | 4-7 | 4 | 6 | 24 |
| Nguifer Media | Bedded SS, LS, SH Sequences | 3 | 6 | 18 |
| Boil Media | Thin or Absent | 2 | 10 | 20 |
| Topography | 2-66 | 1 | , | , |
| Impact Vadose Zone | Bedded LS, SS, SH | 5 | • | 30 |
| Hydraulic Conductivity | 1-100 | , | 1 | ı |
| | | Drasti | c Index | 139 |

| SETTING 6 Da Alternati | ng Sandstone, ie - Thin Scii | 1 P1 | STICIDE | |
|------------------------|---------------------------------|--------|-------------------|-----------------|
| PEATURE | RANGE | WEIGHT | RATING | мун о ві |
| Depth to Water | 15-30 | 5 | , | 35 |
| Net Recharge | 4-7 | • | 6 | 24 |
| Nquifer Media | Bedded SS, LS, SH Sequences | , | • | 10 |
| Soil Media | Thin or Absent | , | 10 | 50 |
| Topography | 2-64 | , | , | 27 |
| Impact Vadose Ione | Bedded LS, SS, SH | 1 | 6 | 24 |
| Hydraulic Conductivity | 1-100 | 2_ | | 2 |
| <u></u> | | | icide ic Index | 180 |

NON-GLACIATED CENTRAL

(60b) Alternating Sandstone, Limestone and Shale - Deep Regolith

This setting is identical to (6Ds) Alternating Sandstone, Limestone and Shale - Thin Soil except that the surficial deposits typically have been weathered to form clay loams which grade into weathered bedrock. This weathered zone helps retard the movement of pollutants through the ground to the water table. These thick soil deposits are usually in direct, hydraulic connection with the underlying fractured sedimentary deposits.



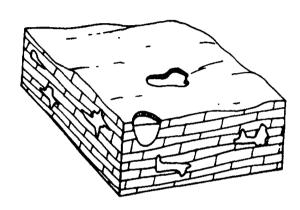
| SETTING 6 Db Alternati | ne Sandstone, le - Deep Resolith | <u> </u> | GENERA | L |
|------------------------|-------------------------------------|----------|---------|-------|
| PEATURE | RANGE | MEIGHT | RATING | HUNGE |
| Depth to Water | 15-30 | 5 | , | 35 |
| Wet Recharge | 4-7 | 4 | • | 24 |
| Aquifer Media | Bedded SS. LS. SH Sequences | 3 | • | 18 |
| Boil Media | Clay Loan | 2 | , | |
| ropography | 2-6% | 1 | , | • |
| Impact Vadose Sone | Bedded LS, SS, SH | 5 | • | 30 |
| Hydraulic Conductivity | 1-10C | 3 | 1 | 3 |
| | | Drasti | c Index | 125 |

| SETTING 6 35 Alternations, She | na Sendatone, le - Deen Bemolith | PE | BTICIDE | ; |
|--------------------------------|-------------------------------------|--------|---------|-------|
| FEATURE | BANGE | | RATING | HUMBE |
| Depth to Weter | 15-36 | 3 | , | 35 |
| Het Recharge | 4-7 | 4 | 6 | 24 |
| Ngusfer Media | Bedded SS. LS. SN Sequences | , | • | 10 |
| Soil Media | Clay Loam | 3 | 3 | 15 |
| ropography | 3-61 | 3 | , | 27 |
| Impact Vadose Ione | Bedded LS, SS, SH | 4 | ٨ | 24 |
| Hydraulic Conductivity | 1-100 | , | 1 | 2 |
| | | Pest I | | 145 |

NON-GLACIATED CENTRAL

(62) Solution Limestone

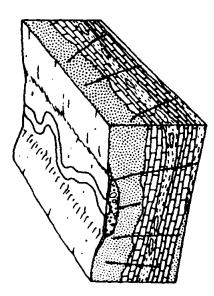
This hydrogeologic setting is characterized by moderate, but variable, topographic relief and deposits of limestone which have been partially dissolved along bedding and fracture planes to form a network of solution cavities and caves. Soil is usually thin or absent, but where present is commonly a clayey loam. Recharge is usually greater than lo inches per year because the region receives significant amounts of rainfall which is easily recharged through the solution channels. Bunoff return through solution channels into surface watercourses is sometimes very high. Water levels are typically moderately deep. The limestone serves as significant source of ground water because of the high hydraulic conductivity of the solution channels. Gaves related to this setting are widespread, but their greatest concentration occurs in a band 200-400 miles wide extending from central Missouri through western Virginia.



| SETTING 6 E Solution | Limestone | 1 | GENERA | L |
|------------------------|-----------------|--------|---------|-------|
| PEATURE | RAHGE | MEIGHT | RATING | HUNGE |
| Depth to Water | 30-5¢ | 1 | , | 25 |
| let Recharge | 19+ | 4 | , | 36 |
| Mquifer Media | Rarst Limestone | 1 | 10 | 38 |
| Soil Media | Thin Or Absent | 1 | 10 | 20 |
| ropography | 6-126 | ١, | 5 | 3 |
| Impact Vadose lone | Rarst Limestone | 3 | 10 | 50 |
| Mydraulic Conductivity | 2000- | ı | 10 | 30 |
| | | Drasti | c Indus | 196 |

| SETTING 6 E Solution | Limestone | M | ESTICIDA | t |
|------------------------|-----------------|-----------------|-------------------|------|
| PEATURE | BANCE | AETCHA | RATING | 199E |
| Depth to Water | 30-54 | 3 | 5 | 25 |
| Het Recharge | 10- | • | , | 36 |
| Mquifer Media | Earst Limestone | , | 10 | 36 |
| Soil Media | Thin or Absent | 5 | 10 | 50 |
| lopography | 6-124 | , | 5 | 15 |
| Impact Vadose Ione | Farst Limestone | • | 10 | 49 |
| lydraulic Conductivity | 30004 | 1 2 | 16 | 26 |
| | | Post : Drant | c 100 ic Index | 216. |

era) Bruer Alluvium with Overbank Deposition WANDLACLATED CENTRAL

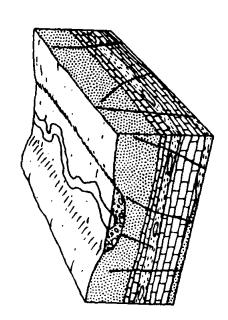


| - 1 - | FA BAVER Alluvaum wath Overbenk | | CENERAL | |
|------------------------|---------------------------------|----------|----------------------|--------|
| FLATURE | HANGE | WE I GHT | HEIGHT PATING NUMBER | NUMBER |
| A MARKET | 15-30 | \$ | 7 | 2 |
| | 7-10 | ٠ | • | ñ |
| | Sand and Gravel | ٠ | • | * |
| 94 | Clay Loam | | • | ٠ |
| | 0-24 | - | 0. | ٥ |
| Saper Vedose Zone | \$11c/Clay | • | _ | 2 |
| Pydraulic Conductivity | 1000-5000 | _ | • | ~ |
| | | Di Ma | Drastuc Index | 72 |

| SETTING 6 FO RIVER ALLIN | 6 Fe River Alluvium with Overbenn | | PESTIGIDE | |
|--------------------------|-----------------------------------|----------------------|-----------|------|
| PEATURE | NANGE | WEIGHT PATTING PUMBE | PALTAG | 3000 |
| Depth to Water | 15-30 | , | ^ | ۾ |
| et Recharge | 2-10 | • | • | ä |
| Muster Medie | Sand and Gravel | • | • | * |
| bil redia | Clay Lose | • | r | 13 |
| Population | 0-31 | _ | 9 | ě |
| Impact Vadose Ione | \$11t/Clay | ٠ | - | 22 |
| Pydraulic Conductivity | 1000-2000 | ~ | • | = |
| | | Pestacide | c 168 | : |

NON-CLACIATED CENTRAL

(6Fb) River Alluvium without Overbank Deposits

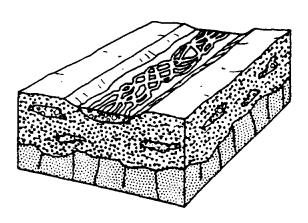


| SETTING 6 FE RIVET Alluvium without | IVIUM WATHOUT | _ | CENERAL | |
|-------------------------------------|-----------------|----------|----------------------|--------|
| PLATURE | PANGE | re I GNT | WEIGHT PATING NUMBER | NUMBER |
| Depth to Mater | \$1-8 | • | ٠ | 4.5 |
| Yet Becharge | 7-10 | • | • | 77 |
| Aguster Media | Sand and Gravel | , | • | 7. |
| Soil Media | Sandy Loam | | ٠ | 2 |
| Topography | 0-24 | 1 | 10 | 2 |
| Impact Vadose tone | Sand and Gravel | , | • | 2 |
| Aydraulie Conductivity | 1000-2000 | 1 | • | ~ |
| | | 1 | į | - |

| SETTING 6 Pb River Alluvius exchour | DVIUM Without | 76.5 | PESTICIDE | |
|-------------------------------------|-----------------|-------------------------|----------------------------|--------|
| FEATURE | RANGE | WEIGHT | WEIGHT HATTHE HURSEN | NC SEC |
| Depth to Mater | 81-15 | ٦ | • | \$ |
| Het Recharge | 7-10 | • | • | 77 |
| Muster Medie | Sand and Gravel | ٦ | • | ~ |
| Foll Media | Sandy Lose | 8 | • | 2 |
| Opography | 0-24 | , | 0. | ž |
| Impact Vadose tone | Sand and Gravel | • | • | ~ |
| Hydraulic Conductivity | 1000-5000 | • | • | ٠ |
| | | Pestacide Drestacide | Pestacade Drestac Indes | \$07 |

(6G) Braided River Deposits

This hydrogeologic setting is characterized by deposits of alluvium which occur within the flood plain of streams and rivers. The stream is characterized by a low gradient, wide channel and series of interconnected shallow channels which form a braided pattern. Water levels are typically shallow. This setting is found only in the western portion of this ground—water region. The river alluvium does not serve as a significant source of ground water where it overlies more productive assi-consolidated deposits. However, recharge from the river is substantial and the underlying deposits are in direct hydraulic connection with the overlying alluvium; therefore the potential for pollution of the aquifer is high. Although precipitation commonly averages less than 20 inches per year, recharge is relatively high due to the flat topography and sandy surficial deposits.



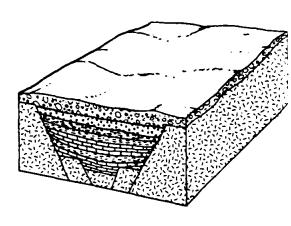
| SETTING & G Braided R | iver Deposits | l | GENERAL | L |
|------------------------|-----------------|--------|---------|--------|
| FEATURE | RANGE | MEIGHT | RATING | NUMBER |
| Depth to Water | 0-5 | 5 | 10 | 50 |
| Net Recharge | 4-7 | 4 | • | 24 |
| Aquifer Media | Sand and Gravel | 3 | | 24 |
| Soil Media | Send | 2 | , | 1.8 |
| Topography | 0-24 | 1 | 10 | 10 |
| Impact Vadose lone | Sand and Gravel | 5 | • | 40 |
| Hydraulic Conductivity | 1000-2000 |) | • | 24 |
| | | Drasta | c Index | 190 |

| SETTING 6 G Braided Siver Deposits | | ₹ 1 | ESTICIO | E |
|------------------------------------|-----------------|-----------------|---------|--------|
| FEATURE | RANGE | WEIGHT | RATING | NUMBER |
| Depth to Water | 0+5 | 5 | 70 | 50 |
| Net Recharge | 4-7 | | 6 | 24 |
| Aquifer Media | Sand and Gravel | , | | 24 |
| Soil Media | Sand | 5 | , | 45 |
| Topogr aphy | 0-24 | , | 10 | 30 |
| Impact Vadose Sone | Sand and Gravel | 4 | 8 | 32 |
| Hydraulic Conductivity | 1000-2000 | 2 | • | 16 |
| | | Pest L Drant | | 221 |

NON-GLACIATED CENTRAL

(6H) Triassic Basins

This hydrogeologic setting is characterized by moderatic dipping, highly faulted beds of sandstone, shale and solimestone. Conglomeritic deposits occur in some areas. These basins tend to be bounded by high angle faults, in the basins being elongate in the NE-SW directions. The sedimentary beds may be cut by narrow igneous intrusion (dikes, etc.), and are sometimes indurated by the intruscrivity. The Triassic formations are often red in coldue to high iron concentrations, but green colors are a common. These deposits may serve as a localized source water and water levels are variable.



| SETTING 6 H Triassic Basins | | | SENERA | |
|-----------------------------|-------------------|--------|--------|----|
| PEATURE | RANGE | MEIGHT | MATING | No |
| Septh to Water | 75-100 | 5 | 2 | ! |
| Net Recharge | 4-7 | 4 | 6 | |
| equifer Media | Massive Sandstone | , | 6 | Ī |
| Scil Media | Sandy Loam | 2 | 6 | 1 |
| ropography | 2-64 | 1 | , | |
| Impact Vadose Ione | Redded LS, SS, SH | 5 | 6 | |
| Hydraulic Conductivity | 1-100 | 3 | 1 | |

Orentac Inter i 1

| SETTING 6 H Triassic Basins | | | PESTICIOS | | | |
|-----------------------------|-------------------|--------|------------------|---|--|--|
| FEATURE | RANGE | WEIGHT | RATING | N | | |
| Depth to Water | 75-160 | 5 | 2 | : | | |
| Net Recharge | 4-7 | 4 | 6 | ! | | |
| Aquifer Media | Massive Sandstone | , | • | j | | |
| Boll Media | Sendy Loan | 5 | 6 | L | | |
| topography | 2-46 | , | , | | | |
| Impact Vadose tone | Bedded LS. SS. SH | 4 | 6 | | | |
| Hydraulic Conductivity | 1-100 | 2 | , | | | |
| | | Pesta | cade or Index | , | | |

CON-CLACIATED CENTRAL

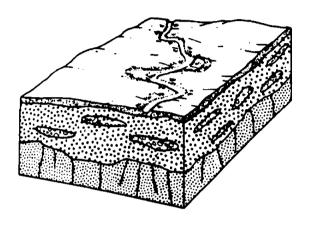
(61) Swamp/Marsh

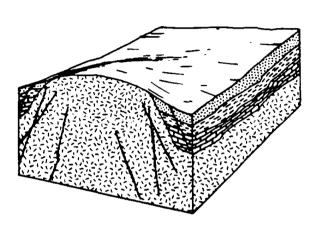
hydrogeologic setting is characterized by low whis hydrogeologic secting is characterized by low capographic relief and high water levels with high organic capographic in the sandy clay deposits. The high control of the sandy clay deposits. capographic relief and might water levels with high organic content in the sandy clay deposits. The high water tables content and either restricted vertical conductives content in the sensor case, deposites, line high water tables content are a result of either restricted vertical conductivity or are a result of either restricted vertical conductivity or are a result of either restricted drainage patterns. Recharge is highly and the restricted drainage patterns. result of the control restricted drainage patterns. ascharge is highly variable restricted patterns and the second etression parameter to the underlying aquifer.



(6J) Metamorphic/Igneous Domes and Fault Blocks

This hydrogeologic setting is characterized by metamorphic and igneous rocks exposed at the surface. The rocks are typically more highly fractured and faulted along the flanks of the domes. The domes are flanked by gently dipping deposits of sedimentary rocks which may also be faulted adjacent to the dome. Soil is typically thin or absent and water levels are extremely variable. Recharge rates are typically low because of excessive surface runoff and low permeabilities. Water yields are extremely variable depending on the degree of folding and faulting but typically are higher along the more fractured flank zones. Where few fractures exist, water yields are very low or non-existent.





| SETTING 6 I SWAMP/Marsh | | GENERAL | | |
|-------------------------|--------------------------------|---------|---------|--------|
| PEATURE | RANGE | WEIGHT | RATING | HUNGER |
| Depth to Water | 9 - 1 | 5 | 10 | 56 |
| Met Recharge | 4-7 | • | • | 24 |
| Meuifer Media | Bedded SS, LS. SH Shaketes | , | 6 | 18 |
| Soil Hedia | Clay town | 2 | ı | |
| Popography | 0-2 | ו | 10 | 10 |
| Impact Vadose Ione | Sig Glerkin, Salt Airt (20g | 5 | 6 | 36 |
| lydraulic Conductivity | 101-300 | , | 2 | G |
| | | Drasta | : Index | 144 |

| SETTING 6 0 Metamorphic/Igneous Domes | | | GEHERA | L |
|---------------------------------------|----------------------|--------|--------|--------|
| PEATURE | RANGE | MEIGHT | RATING | HUHBER |
| Depth to Water | 75-100 | 5 | 2 | 16 |
| Net Recharge | 0-2 | 4 | 1 | 4 |
| Aquifer Media | Metamorphise/Igneous | 3 | 3 | , |
| Soil Media | Thun Or Absent | 2 | :0 | 20 |
| Topography | 6-12 | 1 | 5 | 5 |
| Impact Vadose Zone | Hetakorphic/Ignaous | 5 | • | 30 |
| ydraulic Conductivity | 1-106 | , | • | 3 |
| | | Drasta | Index | |

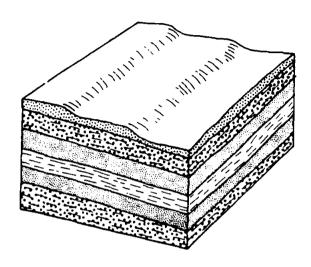
| RETTING & I Swamp 'Marsh | | PESTICION | | |
|--------------------------|--------------------------------|-----------|--------|-------|
| PEATURE | RANGE | WEIGHT | RATING | HUMBE |
| Depth to Water | 0-5 | 5 | 16 | 30 |
| Met Rocharge | 4-7 | 4 | 6 | 24 |
| Aquifor Media | Bedded SS, LS. SK Sequences | , | (| 16 |
| 011 Media | Clay Loam | , | ١ | 15 |
| Popography | 0-2 | , | ١. | 30 |
| Impact Vadose Sone | S & G w/mag. Salt and Clay | • | • | 24 |
| lydraulic Conductivity | 100-300 |] , | 2 | _ • |
| | | Pest: | | 165 |

| SETTING 6 J Netamorphic/igneous Domes | | PE | PESTICIDE | | |
|---------------------------------------|---------------------|--------|---------------|----|--|
| FRATURE | RANGE | WEIGHT | WEIGHT RATING | | |
| Depth to Water Table | 75+100 | 5 | | 10 | |
| iet Recharge | 0-2 | 1 | , | • | |
| Aquifer Media | Metamorphic/Igneous | , | 3 | , | |
| Soil Redia | Than Or Absent | 5 | 10 | 36 | |
| Topography | 6-12 | 1 | 5 | 5 | |
| Impact Vedose lone | Heratorphic/Igneous | • | • | 16 | |
| lydraulic Conductivity | 1-100 | 2 | 1 | ~ | |
| | | Pesti | | × | |

NON-GLACIATED CENTRAL

(6K) Unconsolidated and Semi-Consolidated Aquifers

This hydrogeologic setting is characterized by moderately low topographic relief and interbedded deposits which consist primarily of sand, silt and clay. Although soils are typically loamy or sandy, recharge is limited because of only moderate precipitation and high evapotranspiration. Water levels are extremely variable but are typically not less than 50 feet. Bydraulic conductivities are also extremely variable also depending on the amount of fine materials which are interbedded with the sands.



| SETTING 6 K Unconsolidated and Semi- | | GENERAL | | |
|--------------------------------------|-----------------------|---------|---------|--------|
| PEATURE | RANGE | MEIGHT | RATING | NUMBER |
| Depth to Water | 75-100 | 5 | 2 | 10 |
| Net Recharge | 0~2 | 4 | 1 | 4 |
| Aquifer Media | Sand and Gravel | 3 | • | 24 |
| Boil Media | Sendy Loam | 2 | 6 | 12 |
| Topography | 2-69 | 1 | , | • |
| Impact Vadose Zone | 560 wsam. Salt & Clay | 5 | 6 | ж |
| lydraulic Conductivity | 300~10C | 3 | 4 | 12 |
| | | Drasta | - Lodes | 101 |

| SETTING 6 F Unconso. Consols | PESTICIDE | | | |
|---------------------------------|------------------------|-----------------|---------------|-------|
| PEATURE | RANGE | WE I CHT | RATING | HUMBE |
| Depth to Water Table | 75~10C | 5 | , | 10 |
| het Recharge | 0~3 | 4 | , | 4 |
| Aquifer Media | Send and Gravel | 3 | • | 24 |
| Soil Media | Sandy Loan | 5 | 4 | 30 |
| Topography | >=1 | 1 | , | , |
| Impact Vadose lone | SeG w/sig. Silt & Clay | 4 | 6 | 24 |
| Hydraulic Conductivity | 300~70C | 3 | 4 | |
| | | Pest: Drast: | cide Laden | 109 |

Reconnaissance of Ground-Water Resources in the Blue Grass Region Kentucky

By W. N. PALMQUIST, JR., and F. R. HALL

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1533

Prepared in cooperation with the Commonwealth of Kentucky, Department of Economic Development and the Kentucky Geological Survey, University of Kentucky



RECONNAISSANCE OF GROUND-WATER RESOURCES IN THE BLUE GRASS REGION, KENTUCKY

By W. N. PALMQUIST, JR., and F. R. HALL

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ABSTRACT

In the Blue Grass region probably less than half of the attempts to obtain adequate domestic water supplies from wells drilled in bedrock have been successful. The most favorable areas for obtaining ground water in the bedrock are those where thick limestone beds containing little or no shale occur at and below stream level. Areas underlain by shale or interbedded shale and limestone generally are less favorable. In general, more of the wells drilled in valleys are successful than those drilled on ridgetops. Large supplies of ground water can be obtained in many places from the alluvium along the Ohio River, but the alinvium along tributary streams generally is too fine-grained to yield large quantities of water. The water from wells in the Blue Grass region generally is of the calcium bicarbonate type and is hard to very hard. About one-eighth of the wells are reported to yield water containing undesirable amounts of common salt, and about one-tifth of the wells yield water centaining noticeable amounts of hydrogen sulfide.

INTRODUCTION

PURPOSE AND SCOPE OF INVESTIGATION

Ground-water investigations in Kentucky are made by the United States Geological Survey in cooperation with the Commonwealth of Kentucky, Department of Economic Development and the Kentucky Geological Survey, University of Kentucky. Investigations under way are of three general types:

- 1. Detailed investigation of ground-water resources of small areas.
- 2. Statewide inventory of public and industrial water supplies.
- 3. Statewide reconnaissance of ground-water resources.

This investigation is of the third type. The chief purpose of this report is to provide general information on the availability of ground water for all uses in the Blue Grass region of Kentucky. The report will serve also to point our areas where further detailed studies are most needed.

Ground-water investigations of the U.S. Geological Survey in Kentucky are under the supervision of G. E. Hendrickson, district geologist.

LOCATION AND EXTENT OF AREA

For convenience in making the ground-water reconnaissances, the State of Kentucky has been divided into five regions of more or less distinctive geology and physiography. These regions are as follows: Eastern Coal Field, Blue Grass region, Mississippian Plateau, Western Coal Field, and Jackson Purchase. The boundaries of the regions are drawn on county lines which approximate but do not coincide exactly with geologic and physiographic boundaries.

The Blue Grass region (fig. 1) comprises 43 counties in the north-



FIGURE 1 .- Index map of the Blue Grass region showing counties and county groups.

central part of the State and covers an area of approximately 11,300 square miles. It is bounded on the northeast by the Ohio River and the State of Ohio, on the southeast by the Eastern Coal Field, on the southwest by the Mississippian Plateau, and on the northwest by the Ohio River and the State of Indiana. The population of the 43 counties in 1950 was 1,273,576.

PREVIOUS INVESTIGATIONS

The geology of the Blue Grass region has been described by many authors in publications too numerous to list in this report. "Geology of Kentucky," by A. C. McFarlan (1943), contains a summary of the

stratigraphy, structure region, plus an exten the present report app

The first systemat Kentucky was made the geology and occu Grass region. Since ground-water cond D. K. Hamilton rence of ground, Counties. A N Covington-New (1953). W. N. and industrial conditions in (1956) in a availability.

The field period Jan sentative October 1 springs (of the toried infort to w each, and

stratigraphy, structure, physiography, and natural resources of the region, plus an extensive bibliography. A list of references cited in the present report appears at the end of the text.

The first systematic study of the occurrence of ground water in Kentucky was made by G. C. Matson (1909), who briefly described the geology and occurrence of ground water in 30 counties of the Blue Grass region. Since 1944, a number of detailed reports dealing with ground-water conditions in the Louisville area have been published. D. K. Hamilton (1950) described the areas and principles of occurrence of ground water in Bourbon, Fayette, Jessamine, and Scott Counties. A reconnaissance of the ground-water resources of the Covington-Newport alluvial area was described by E. H. Walker (1953). W. N. Palmquist, Jr., and F. R. Hall (1953) described public and industrial ground-water supplies of the region. Ground-water conditions in Jefferson County were described by L. M. MacCary (1956) in a report which includes a map showing ground-water availability.

METHOD OF INVESTIGATION

The fieldwork for this report was done by the writers during the period January 1953 to March 1954. Specific-capacity tests on representative wells were made by W. H. Walker from August through October 1954. Fieldwork consisted chiefly of inventorying wells and springs and studying by direct and indirect means the characteristics of the rocks that affect the storage and movement of ground water.

An average of about 35 representative wells and springs was inventoried in each county. An attempt was made to obtain complete information on each such well and spring. Depth of well and depth to water were measured where possible, and the aquifer supplying each well and spring was determined. A report on the permanence and adequacy of the supply was obtained, generally from the owner. Samples of water from representative wells and springs were collected for chemical analysis. Some well logs and samples of drill cuttings were collected, but no attempt was made to obtain all the available logs. Information obtained in the well and spring inventory is summarized by means of well symbols and explanations on availability maps which are published separately in U.S. Geological Survey Hydrologic Investigations Atlases HA 15-25 (see Palmquist and Hall, 1960a-e).

Selected wells in the more important aquifers were pumped to determine their specific capacity. Some of the larger springs were gaged to determine their flow. The resulting data are presented in tables 1 and 2.

Geologic mapping was restricted largely to part of Rowan County, where no geologic map was available. There the geologic boundaries were drawn on the basis of available well logs and a reconnaissance field study. Additional geologic mapping was done in several counties where the existing maps did not distinguish some of the more important water-bearing strata. Most of the geology shown on the maps, however, has been adapted from existing county geologic maps prepared by the Kentucky Geological Survey. The geologic maps are included in U.S. Geological Survey Hydrologic Investigations Atlases HA 15–25 (see Palmquist and Hall, 1960a–f; and Hall and Palmquist, 1960a–e). References to the original county maps appear in the atlases.

ACKNOWLEDGMENTS

The reconnaissance was aided greatly by the cooperation and interest of well owners, well drillers, county agents, and United States Soil Conservation Service employees in the region.

Dr. A. C. McFarlan, former director of the Kentucky Geological Survey, aided materially in the compilation of the stratigraphic correlation chart of the region.

GEOGRAPHY

The Blue Grass region proper consists of the Inner Blue Grass, Eden shale belt, and Outer Blue Grass physiographic subdivisions. However, for the purpose of this report it is defined to include also the Kuobs and small parts of the Eastern Coal Field and Mississippian Plateau. Most of the region lies in the Lexington Plain section of the Interior Low Plateaus physiographic province (Fenneman, 1938). Figure 2 shows physiographic subdivisions and the outer limits of the area of this report as determined by county boundaries.

TOPOGRAPHY AND DRAINAGE

The central part of the Blue Grass region as shown in figure 2 coincides, for the most part, with what is known as the Inner Blue Grass and consists of the outcrop areas of the Cynthiana formation (Ordovician) and older Ordovician strata. The area is a gently rolling upland in which the Kentucky River and some of its tributaries are entrenched as much as 300 feet. Most of the rock underlying the area is limestone that has been subjected to considerable erosion by solution, both on and beneath the surface. As a result, much of the drainage is underground. In places the underground drainage comes to the surface to form springs. The area is dotted with sinkholes as much as 60 feet deep and 1 square mile in area.

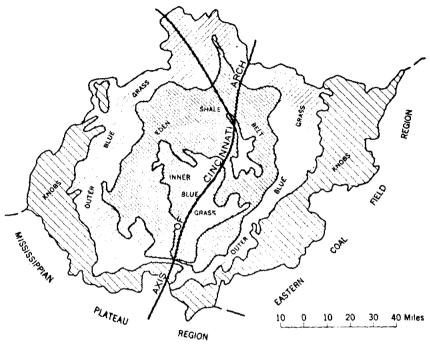


FIGURE 2.—Physiographic subdivisions of the Blue Grass region, Kentucky, and location of the Cincinnati arch.

The Inner Blue Grass is surrounded by a band of dissected, hilly country known as the Eden shale belt. The Eden shale belt consists of the outcrop area of the Eden group of Ordovician age, which is made up mainly of shale and interbedded thin layers of limestone and is characterized by sharp, irregular ridges and narrow valleys. Because of the steep slopes, runoff is rapid, and few perennial streams originate in the Eden shale belt.

The Outer Blue Grass surrounds the Eden shale belt. The Outer Blue Grass consists of the outcrop areas of the Richmond and Maysville groups of Ordovician age and part of the outcrop area of rocks of Silurian age. These rocks are chiefly limestone but include considerable interbedded shale. The topography is gently rolling except near major streams, where it is dissected and rugged. There has been some subsurface solution, and small sinkholes are fairly common, but most of the drainage is on the surface.

Bordering the Outer Blue Grass on the east, south, and west is a belt, known as the Knobs, which is underlain by rocks of Silurian, Devonian, and Early Mississippian ages. The outcrop of Silurian and Devonian rocks west of the Cincinnati arch is gently rolling and more or less continuous with the Outer Blue Grass. East of the arch,

rocks of Silurian and Middle Devonian age underlie long, wide valleys extending into the Knobs. Upper Devonian and Lower Mississippian rocks make up the hillsides and most of the hilltops of the rough, hilly belt of the Knobs proper.

Rocks of Late Mississippian age crop out in the Knobs along the west and south edges of the area. These rocks are outliers of the Mississippian Plateau. Rocks of Early Pennsylvanian age crop out in the Knobs along the east edge of the area, mainly on the tops of hills and ridges. These rocks are outliers of the Eastern Coal Field.

The alluvial terraces of the Ohio River valley lie along the entire north border of the Blue Grass region. The valley is cut about 350 feet below the general level of the adjacent area. The part of the Ohio River valley to be considered in the present report consists of the alluvial terraces on the Kentucky side of the Ohio River. The width of the terraces ranges from zero, where the river impinges on the valley walls, to a maximum of about 5 miles, near Louisville.

The entire Blue Grass region lies within the drainage basin of the Ohio River. The important tributaries of the Ohio that drain the region are the Kentucky, Licking, Salt, Cumberland, and Green Rivers. The Kentucky River drains an area of about 3,700 square miles, or 33 percent of the Blue Grass region as defined. It enters the region in the southeast in Estill County, flows westward to Jessamine County, and then northward to the Ohio River at Carrollton. The Kentucky River is incised as much as 300 feet below the general upland level and has cut a steep, narrow gorge where it crosses the Cincinnati arch. The Licking River enters the area in the east in Rowan County and flows northwestward to the Ohio River at Covington and Newport. It drains 2,900 square miles, or 25 percent of the Blue Grass region. It has cut a valley as much as 300 feet below the upland level, but it has a wider valley and flood plain than the Kentucky River and nowhere is entrenched in a steep, narrow valley. The Salt River heads in Boyle County, flows northward to Anderson County, and thence westward to the Ohio River at West Point, south of Louisville. The Salt River drains about 2,670 square miles, or 24 percent of the area. About 160 square miles in Lincoln County in the extreme southern part of the region is drained by the Cumberland and Green Rivers, which join the Ohio River in western Kentucky. A narrow strip of land along the Ohio River is drained by small directly tributary streams.

The subsurface drainage pattern is composed of many small independent units much like the surface drainage, which is made up of many small watersheds. In areas underlain by limestone, subsurface

drainage courses may deviate locally from the surface drainage. Such deviations usually are evident from discontinuities in the surface drainage pattern.

CLIMATE

The climate of the Blue Grass region is of the humid continental type, with sharp contrasts between the winter and summer. The mean annual temperature ranges from 53° to 57° F., 55° F. being about average for the region. The mean January temperature ranges from 32° to 37° F. and averages about 34° F. The mean July temperature ranges from 75° to 78° F. and averages about 76° F. The growing season is about 180 days. The mean annual precipitation ranges from 39 to 47 inches and averages about 43 inches. Precipitation is rather evenly distributed throughout the year, there being sufficient rain during the growing season in most years to cause crops to mature. The spring months sometimes have enough rain to produce floods; yet, in contrast, drought conditions occasionally prevail for several weeks during the summer.

Figure 3 consists of two graphs showing the monthly temperature and precipitation averaged for 10 stations in the Blue Grass region.

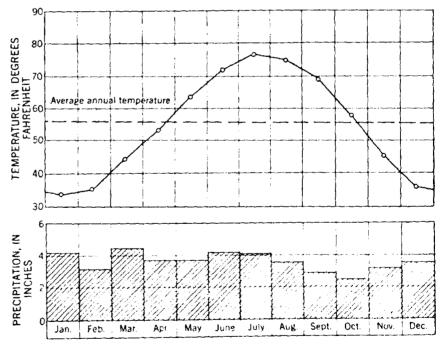


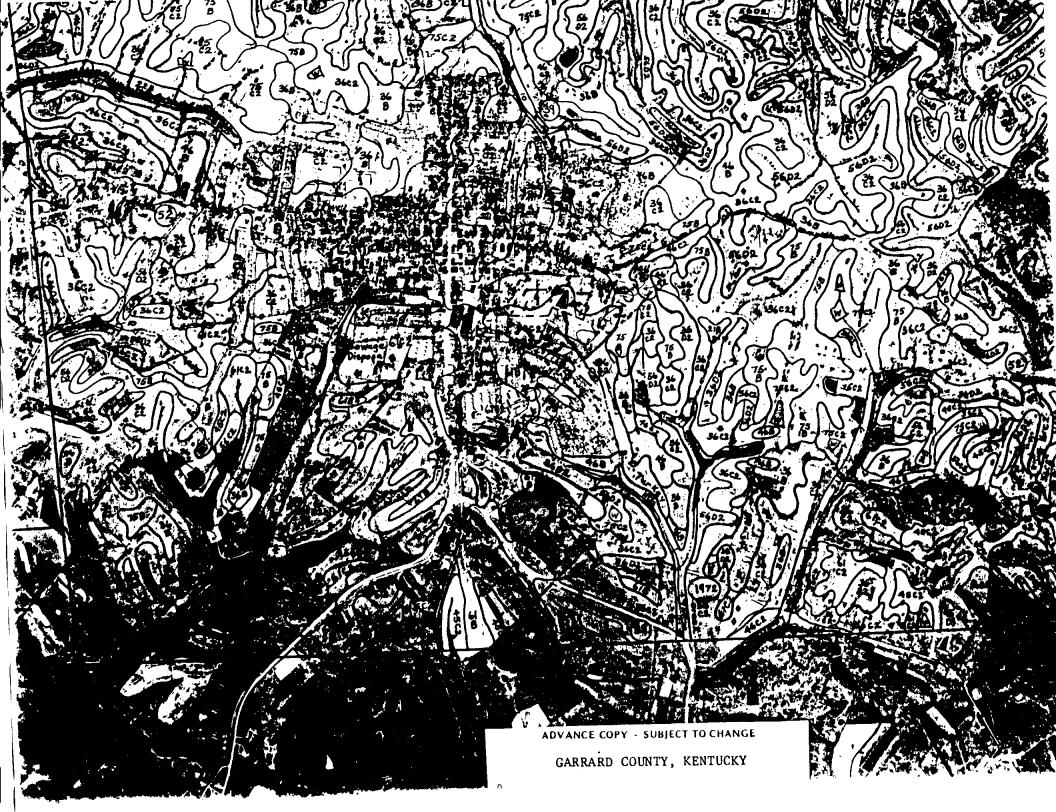
FIGURE 3.—Monthly temperature and precipitation averaged from normals for 10 stations in the Blue Grass region.

SOIL DESCRIPTIONS

| LANDOWNER OR OPERATOR | ALLISON ABRASIVES | |
|-----------------------|---------------------|--|
| | INDUSTRY ROAD | |
| | LANCASTER, KY 40444 | |

The soil symbol on the Soil and Capability Map indicates the soil type, the slope of the land and the degree of erosion. The capability class and the soil description for each soil symbol is listed below:

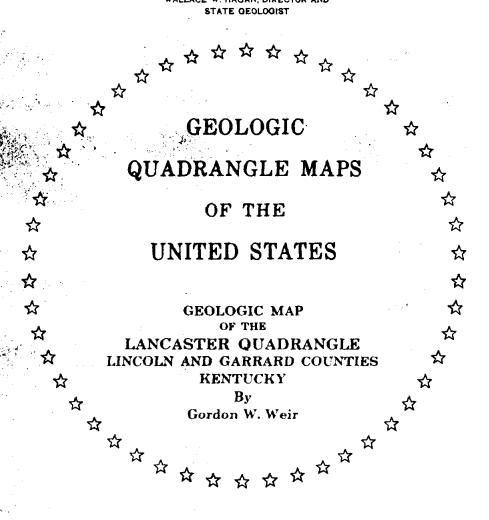
| | | Capability Class | ! Soil Description and Name |
|------|---|---------------------|---|
| 75 B | - | IIe-5 | INicholson silt loam 2 to 6% slopes-upland soil with a pan at about 2 feet that limits the root izone and water movement. Tilth is good but erod-libilitly is high due to silt content. |

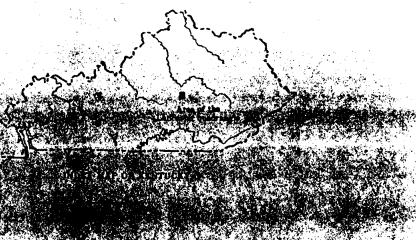


REFERENCE 21

DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE COMMONWEALTH OF KENTUCKY
UNIVERSITY OF KENTUCKY
KENTUCKY GEOLOGICAL SURVEY
WALLACE W. HAGAN, DIRECTOR AND
STATE GEOLOGIST





OVERSIZED DOCUMENT MAP

PREPARED IN COOPERATION WITH THE COMMONWEALTH OF KENTUCKY DEPARTMENT OF ECONOMIC DEVELOPMENT AND THE KENTUCKY GEOLOGICAL SURVEY UNIVERSITY OF KENTUCKY

AVAILABILITY OF GROUND WATER IN BOYLE, GARRARD LINCOLN, AND MERCER COUNTIES, KENTUCKY

Ву

W. N. Palmquist, Jr., and F. R. Hall

HYDROLOGIC INVESTIGATIONS ATLAS HA-20



INDEX MAP OF THE BLUE GRASS REGION, KENTUCKY, SHOWING COUNTY

This is 1 of 11 atlases (HA-15 to HA-25) showing the geology and availability of ground water in the Blue Grass region, Kentucky. U. S. Geological Survey Water-Supply Paper 1533 contains a text description and illustrations providing further information on the occurrence and quality of the ground water in the Blue Brass region, et in the Diffe place reflect.

> PUBLISHED BY THE U. S. GEOLOGICAL SURVEY WASHINGTON, D.C. 1960

OVERSIZED DOCUMENTS MAPS

SINKHOLE FLOODING AND SINKHOLE COLLAPSE KARST HAZARD ASSESSMENT OF KENTUCKY

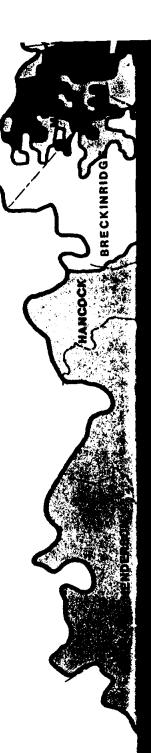
>

Western Kentucky University, Bowling Green, Kentucky Department of Geography and Geology Nicholas Crawford and James Webster Center for Cave and Karst Studies

Prepared for

United States Environmental Protection Agency, Region IV 345 Courtland Street, Atlanta, Georgia G004358-83-0 Underground Water Source Protection Program Grant No.

1986

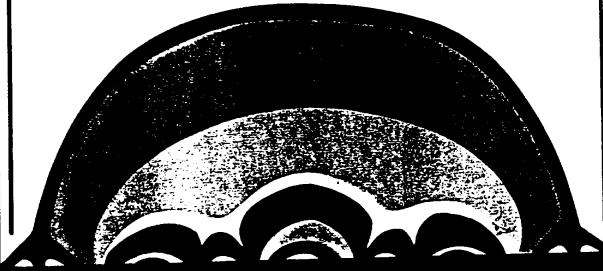


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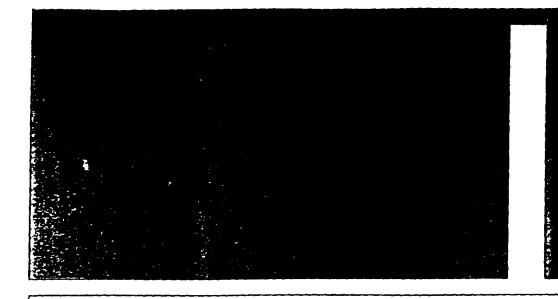
OVERSIZED DOCUMENT MAP

REFERENCE 24

GROUNDWATER



R. Allan Freeze/John A. Cherry



R. Allan Freeze

Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632

restriction of the first state of the state

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

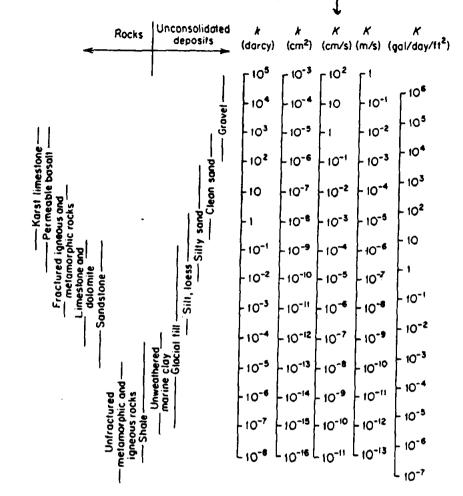


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

| | | Permeability, k* | | Hydraulic conductivity, K | | | | |
|-------------------------|--------------------------|--------------------------|-----------------------|---------------------------|------------------------|-------------------------|--|--|
| | cm² | ft ² | darcy | m/s | ft/s | gal/day/ft ¹ | | |
| cm ² | 1 | 1.08 × 10 ⁻³ | 1.01 × 10° | 9.80 × 10 ² | 3.22 × 10 ³ | 1.85 × 10° | | |
| ft ² | 9.29×10^{2} | 1 | 9.42×10^{10} | 9.11×10^{3} | 2.99×10^{6} | 1.71×10^{12} | | |
| darcy | 9.87 × 10-9 | 1.06×10^{-11} | 1 | 9.66×10^{-6} | 3.17×10^{-3} | 1.82×10^{1} | | |
| m/s | 1.02×10^{-3} | 1.10×10^{-6} | 1.04×10^{3} | 1 | 3.28 | 2.12×10^{6} | | |
| ft/s | 3.11×10^{-4} | 3.35×10^{-7} | 3.15×10^4 | 3.05×10^{-1} | 1 | 5.74×10^{5} | | |
| gal/day/ft ² | 5.42 × 10 ⁻¹⁰ | 5.83 × 10 ⁻¹³ | 5.49×10^{-2} | 4.72×10^{-7} | 1.74×10^{-4} | 1 | | |

^{*}To obtain k in ft2, multiply k in cm2 by 1.08 \times 10⁻³.

TELEPHONE MEMORANDUM

Site Assessment Simmons Casket Company BVWST Project 52011.020 BVWST File E.1 May 22, 1992 3:45 p.m.

Stream Flow Rates for the Kentucky and Dix Rivers

To:

Mike Griffin, Hydrologist

Company:

US Geological Survey

Phone No.:

(502) 582-5241

Recorded by:

Carter Helm

Mr. Griffin checked his USGS records for flow rates (in the Garrard County vicinity) for the Kentucky River and its tributaries located near Lancaster. He provided 1991 average annual flow rates for the following streams:

| Kentucky River | • | ٠ | • | | | | • | | • | | 7,879 cf | fs |
|----------------|---|---|---|---|---|---|---|---|---|---|----------|----|
| Dix River | | | | • | | | | | | | . 639 ct | fs |
| Gilberts Creek | | | • | | | • | | • | ٠ | • | <100 ct | fs |
| Turkey Creek . | | | | | • | | | • | | | <100 ct | fs |

B&V WASTE SCIENCE AND TECHNOLOGY CORP.

TELEPHONE MEMORANDUM

U. S. EPA Region IV Simmon's Casket Company Water distribution BVWST Project 52011.020 BVWST File June 4, 1992 13:30

To:

Fred Simpson, Water Superintendent

Company:

Lancaster Water Works

Phone No.:

606-792-3188

Recorded by:

Carter Helm

Mr. Simpson stated that all municipal water is withdrawn from one surface water intake located in the Kentucky River near Sugar Creek. Lancaster Water Works then sells water to Crab Orchard and Garrard County.

Two distribution centers are located in Lancaster, with "master meters" located at city limits at each road leading out of Lancaster. These master meters determine the amount of water the county and Crab Orchard use.

The following connections are associated with each municipality:

1500 Lancaster Water Works

2200 Garrard County Water Association

700 Crab Orchard Water District

4400 Total connections

......... гаппу, апа Group Quarters Characteristics: 1990

(For definitions of terms and meanings of symbols, see text)

68 KENTUCKY

SUMMARY POPULATION AND HOUSING CHARACTERISTICS

TPSII [POSTSCAPT] CPH121 CENSUS90 72580800 04/23/81 2:36 PM MACHNE: C DATA: CENSUS90 PH1TIPSDAT21.04/23/91 14:24/44 OUTPUT: CNSITE-P9505 PAGE: 88 TSF: CENSUS90 '92 04/23/91 14:25:08 UTF: CENSUS90 '92 04/23/91 14:25:08 UTF: CENSUS90 '93 04/23/91 14:25:08 META: CENSUS90 'PH1TABLES21. 04/23/91 14:35:38



COMMONWEALTH OF KENTUCKY

KENTUCKY STATE NATURE PRESERVES COMMISSION

407 BROADWAY
FRANKFORT, KENTUCKY 40601
(502) 564-2886

May 12, 1992

Ms. Laura Morrison
B & V Waste Science & Technology Corporation
1117 Perimeter Center West, Suite W-212
Atlanta, Georgia 30338

Re: Environmental Review 276

Dear Ms. Morrison:

This letter is in response to your request of April 3, 1992 for environmental review of sixteen (16) separate sites scattered throughout central and western Kentucky. We have reviewed our Natural Heritage Database to determine if any of the endangered, threatened, or special concern species or sensitive natural areas monitored by the Kentucky State Nature Preserves Commission (KSNPC) occur near each of the sixteen project areas. Based on our most current information, we have marked known locations of rare species and sensitive natural areas on the photocopies of United States Geological Survey Topographic Quadrangle maps provided with your request. Enclosed with this letter is a copy of the most current KSNPC list of rare species, which should provide you with supplementary material on those species for which locations have been provided. If the information provided is insufficient for your purposes, or if you have any further questions concerning your request, please feel free to call Mr. Brainard Palmer-Ball, Jr. of my staff.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the

L. Morrison, B & V Waste Science & Technology Corp. May 12, 1992 Page Two

request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

An invoice for the foregoing environmental review service is enclosed. If you have any questions or I can be of further assistance, please do not hesitate to contact me.

Sincerely,

Richard R. Hannan

Richas R. 78om

Director

RRH/BPB

Endangered, Threatened, and Special Concern Plant and Animal Species of Kentucky

Kentucky State Nature Preserves Commission March, 1991

| | STA | | | STAT | |
|--|-------|------------|---|------------|----|
| | KSNPC | US | | KSNPC | US |
| PLANTS | | • | Aster saxicastellii | T | |
| | | | Rockcastle Aster | | |
| Acer spicatum | Ť | | Aster sericeus | T | |
| Mountain Maple | | | Western Silky Aster | | |
| Aconitum uncinatum | T | | Aster texanus | E | |
| Blue Monkshood | | | Texas Aster | | |
| Adiantum capillus-veneris | T | | Aureolaria patula | E | C1 |
| Southern Maidenhair-fern | | | Spreading False Foxglove | | |
| Adlumia fungosa | Ε | | Baptisia leucophaea | S | |
| Climbing Fumatory | | | Cream Wild Indigo | | |
| Agalinis decemloba | E | | Baptisia tinctoria | E | |
| Blue Ridge False Foxglove | _ | | Yellow Wild Indigo | | |
| Agalinis skinneriana | T | CZ | Bartonia virginica | E | |
| Pale False Foxglove | - | | Yellow Screwstem | | |
| Agrimonia gryposepala | S | | Berchemia scandens | E | |
| Tall Hairy Groovebur | _ | | Supple-jack | | |
| Allium burdickii | E | | Botrychium matricariifolium | E | |
| Narrow-leaved Wild Leek | _ | | Matricary Grape-fern | | |
| Amelanchier stolonifera | E | | Botrychium oneidense | E | |
| Running Serviceberry | _ | | Blunt-lobe Grape-fern | - | |
| Amianthium muscaetoxicum | Т | | Bouteloua curtipendula | S | |
| Fly Poison | • | | Side-oats Grama | • | |
| Angelica triquinata | E | | Boykinia aconitifolia | E | |
| Filmy Angelica | | | Brook Saxifrage | - | |
| | E | LT | Cabomba caroliniana | · S | |
| Apios priceana | E | LI | Carolina Fanwort | J | |
| Price's Potato-bean | ᄄ | | | E | |
| Arabis glabra | E | | Calamagrostis canadensis | E | |
| Tower-mustard | 10 | | Blue-joint Reedgrass | s | |
| Arabis missouriensis Missouri Book Crees | E | | Calamagrostis cinnoides Nuttall's Small Paedgrass | 3 | |
| Missouri Rock Cress | E | C1 | Nuttall's Small Reedgrass | E | |
| Arabis perstellata vat. perstellata | E | CI | Calamagrostis ponteri Porter's Reedgrass | E. | |
| Braun's Rock Cress | 10 | T C | | E | |
| Irenaria cumberlandensis | E | LE | Calopogon tuberosus | £ | |
| Cumberland Sandwort | _ | ~ | Grass Pink | 157 | |
| venaria fontinalis | E | C1 | Caltha palustris | E | |
| Water Stitchwort | | | Marsh Marigold | _ | |
| irmoracia lacustris | T | C2 | Calycanthus floridus | T | |
| Lake Cress | | ٠. | Sweet-shrub | _ , | |
| Ister concolor | E | | Calylophus serrulatus | E | |
| Eastern Silvery Aster | _ | | Yellow Evening Primrose | _ | |
| ster pilosus vat. priceae | \$ | | Carex austrina | E | |
| White Heath Aster | | | Southern Sedge | | |

| | STATUS KSNPC US | | STAT KSNPC | rus US |
|-------------------------------|--------------------|-------------------------------|---------------|-----------|
| Carex buxbaumii | E | Chrysogonum virginianum | E | |
| Brown Bog Sedge | | Green-and-gold | _ | |
| Carex crawei | S | Chrysosplenium americanum | E | |
| Crawe's Sedge | | American Golden-saxifrage | _ | |
| Carex decomposita | T | Cicuta bulbifera | E | |
| Epiphytic Sedge | - | Bulb-bearing Water-hemlock | | ~ |
| Carex gigantea | T . | Cimicifuga rubifolia | T | C2 |
| Large Sedge | _ | Appalachian Bugbane | - | |
| Carex hystericina | E | Circaea alpina | T | |
| Porcupine Sedge | | Small Enchanter's Nightshade | _ | |
| Carex joorii | E | Cleistes divaricata | S | |
| Cypress-swamp Sedge | _ | Spreading Pogonia | _ | |
| Carex lanuginosa | S | Clematis crispa | T | |
| Woolly Sedge | • | Blue Jasmine Leather-flower | • | |
| Carex leptalea | S | Clematis glaucophylla | S | |
| Bristly-stalk Sedge | _ | White-leaved Leather-flower | _ | |
| Carex leptonervia | E | Clematis viorna var. flaccida | E | |
| Finely-nerved Sedge | | Flaccid Leather-flower | | |
| Carex socialis | S | Comptonia peregrina | E | |
| Social Sedge | _ | Sweet Fern | _ | |
| Carex stricta | E | Conradina verticillata | E | PT |
| Tussock Sedge | _ | Cumberland Rosemary | _ | |
| Carex tenera | S | Convallaria montana | E | |
| Slender Sedge | _ | American Lily-of-the-valley | _ | |
| Carex triangularis | S | Corallorhiza maculata | E | |
| Fox Sedge | _ | Spotted Coralroot | _ | |
| Carya aquatica | S | Coreopsis pubescens | S | |
| Water Hickory | _ | Star Tickseed | | |
| Castanea pumila | E | Corydalis sempervirens | T | |
| Allegheny Chinkapin | _ | Pale Corydalis | _ | |
| Castilleja coccinea | E | Crotonopsis linearis | E | |
| Scarlet Indian Paintbrush | _ | Narrowleaf Rushfoil | _ | |
| Cayaponia grandifolia | E | Cymophyllus fraseri | E | |
| Southern Cayaponia | _ | Fraser's Sedge | _ | |
| Ceanothus herbaceus | E | Cyperus retrorsus | S | |
| Prairie Redroot | _ | Retrorse Flatsedge | | |
| Cheilanthes alabamensis | E | Cypripedium candidum | E | |
| Alabama Lipfern | | Small White Lady's-slipper | _ | |
| Cheilanthes feei | E | Cypripedium kentuckiense | S | CZ |
| Fee's Lipfern | • | Kentucky Lady's-slipper | - | |
| Chelone obliqua var. obliqua | Т | Cypripedium parviflorum | E | |
| Red Turtlehead | • | Small Yellow Lady's-slipper | _ | |
| Chelone obliqua vat. speciosa | S | Cypripedium reginae | E | |
| Rose Turtlehead | | Showy Lady's-slipper | | |

| • | STAT KSNPC | US US | | STAT KSNPC | rus Us |
|------------------------------------|---------------|----------|---------------------------|---------------|-----------|
| Decodon verticillatus | Т | | Floerkea proserpinacoides | S | |
| Hairy Swamp Loosestrife | _ | | False Mermaid-weed | | |
| Delphinium carolinianum | T | | Forestiera ligustrina | T | |
| Carolina Larkspur | _ | | Upland Privet | | |
| Deschampsia flexuosa | T | | Gentiana alba | E | |
| Crinkled Hairgrass | | | Yellow Gentian | | |
| Dichanthelium boreale | S | | Gentiana decora | T | |
| Northern Witchgrass | | | Showy Gentian | | |
| Didiplis diandra | S | | Gentiana puberulenta | E | |
| Water-purslane | | | Prairie Gentian | | |
| Dodecatheon frenchii | S | | Glyceria acutiflora | E | |
| French's Shooting Star | | | Sharp-scaled Manna Grass | | |
| Draba aprica | E | | Glyceria melicaria | S | |
| Open-ground Whitlow-grass | | | Slender Manna Grass | | |
| Draba cuneifolia | E | | Gratiola pilosa | E | |
| Wedge-leaf Whitlow-grass | | | Shaggy Hedge Hyssop | | |
| Drosera brevifolia | E | | Gratiola viscidula | T | |
| Dwarf Sundew | | | Short's Hedge Hyssop | | |
| Drosera intermedia | E | | Gymnopogon ambiguus | S | |
| Spoon-leaved Sundew | | | Beardgrass | | |
| Dryopteris ludoviciana | E | | Gymnopogon brevifolius | E | |
| Southern Shield Wood Fern | | | Beardgrass | | |
| Dryopteris spinulosa | S | | Halesia carolina | T | |
| Spinulose Wood Fern | | | Carolina Silverbell | | |
| Echinodorus rostratus | T | | Hedeoma hispidum | E | |
| Burhead | | | Rough Pennyroyal | | |
| Echinodorus tenellus | Ε | | Hedyotis michawii | Ε | |
| Dwarf Burhead | | | Michaux's Bluets | | |
| Elymus svensonii | T | C2 | Hedyotis uniflora | E | |
| Svenson's Wild Rye | | | Clustered Bluets | | |
| Eriogonum longifolium vat. harperi | E | C1 | Helianthus eggertii | E | C2 |
| Harper's Umbrella-plant | | | Eggert's Sunflower | | |
| Eryngium integrifolium | Ε | | Helianthus silphioides | T | |
| Blue-flower Coyote-thistle | | | Silphium Sunflower | | |
| Erythronium rostratum | Ε | | Heracleum lanatum | E | |
| Golden Star | | | Cow-parsnip | | |
| Eupatorium luciae-brauniae | T | C2 | Heteranthera dubia | T | |
| Lucy Braun's White Snakeroot | | | Grassleaf Mud-plantain | | |
| Supatorium maculatum | E | | Heteranthera limosa | T | |
| Spotted Joe-pye Weed | | | Blue Mud-plantain | • | |
| Suphorbia mercurialina | E | | Heterotheca latifolia | \$ | |
| Mercury Spurge | | | Broad-leaf Golden-aster | | |
| imbristylis puberula | E | | Hexastylis contracta | E | CZ |
| Hairy Fimbristylis | | | Southern Heartleaf | | |

| | STAT KSNPC | US US | | STAT KSNPC | rus Us |
|--|---------------|----------|--|---------------|-----------|
| | RSINIC | | | NOINI C | |
| Hexastylis heterophylla Variable-leaved Heartleaf | T | | Leiophyllum buxifolium . Sand-myrtle | E | |
| Hieracium longipilum Hairy Hawkweed | E | | Lesquerella globosa Lesquereux's Bladder-pod | E | C2 |
| Hierochloe odorata Holy Grass | E | | Lesquerella lescurii Lescur's Bladder-pod | E | |
| Hydrocotyle americana American Water-pennywort | E | | Leucothoe recurva Fetterbush | E | |
| Hydrolea ovata Ovate Fiddleleaf | E | | Liatris cylindracea Slender Blazing-star | S | |
| Hydrophyllum virginianum Virginia Waterleaf | S | | Lilium philadelphicum Wood Lily | T | |
| Hypericum adpressum Creeping St. John's-wort | E | | Lilium superbum Turk's Cap Lily | E | |
| Hypericum crux-andreae St. Peter's-wort | E | | Limnobium spongia American Frog's-bit | T | |
| Hypericum dolabriforme Glade St. John's-wort | S | a | Linum sulcatum Grooved Yellow Flax | S | |
| Iris fulva Copper Iris | E | | Liparis loeselii Loesel's Twayblade | S | |
| Isoetes butleri Butler's Quillwort | E | | Listera australis Southern Twayblade | E | |
| Isoetes melanopoda Blackfoot Quillwort | E | | Listera smallii Kidney-leaf Twayblade | E | |
| Juglans cinerea White Walnut | S | C2 | Lobelia appendiculata var. gattingeri Gattinger's Lobelia | E | C2 |
| Juncus articulatus Jointed Rush | S | | Lobelia nuttallii Nuttall's Lobelia | E | |
| Juncus elliottii Bog Rush | E | | Lonicera prolifera Grape Honeysuckle | E | |
| Juncus longistylis Long-styled Rush | E | | Ludwigia hiriella Hairy Ludwigia | E | |
| Juniperus communis Ground Juniper | E | | Lycopodium appressum Southern Bog Clubmoss | E | |
| Koeleria cristata Junegrass | E | | Lysimachia fraseri Fraser's Loosestrife | E | CZ |
| Lathyrus palustris Vetchling Peavine | S | | Lysimachia radicans Trailing Loosestrife | E | |
| Lathyrus venosus Smooth Veiny Peavine | T | | Lysimachia terrestris Swamp Candles | E | |
| Leavenworthia exigua var. laciniata Glade Cress | T | CI | Maianthemum canadense Wild Lily-of-the-valley | T | |
| Leavenworthia torulosa Necklace Glade Cress | E | | Malus angustifolia Southern Crabapple | S | |

| | STAT | | | STAT | |
|---|-------|----|--|-----------|-----------|
| | KSNPC | US | | KSNPC | US |
| Malus ioensis Iowa Crabapple | S | | Onosmodium hispidissimum Hairy False Gromwell | E | |
| Malvastrum hispidum Hispid Falsemallow | T | CZ | Onosmodium molle ssp. molle Soft False Gromwell | E | |
| Marshallia grandiflora Barbara's Buttons | E | C2 | Onosmodium molle ssp. occidentale Western False Gromwell | E | |
| Matelea carolinensis Carolina Anglepod | E | | Oronsium aquaticum Golden Club | T | |
| Mecardonia acuminata Purple Mecardonia | Τ | | Oryzopsis racemosa Black-fruit Mountain-ricegrass | | |
| Melampyrum lineare American Cow-wheat | E | | Oxalis priceae Price's Yellow Wood Sorrel | E | |
| Melanthium virginicum Virginia Bunchflower | E | | Pachistima canbyi Canby's Mountain-lover | T | C2 |
| Minuartia glabra Appalachian Sandwort | E | | Parnassia asarifolia Kidneyleaf Grass-of-parnassus | E | |
| Mirabilis albida Pale Umbrella-wort | E | | Parnassia grandifolia Large-flowered Grass-of-parna | E ssus | |
| Monarda punctata Spotted Bee-balm | E | | Paronychia argyrocoma Silverling | E | |
| Monotropsis odorata Sweet Pinesap | T | | Paspalum boscianum Bull Paspalum | S | |
| Muhlenbergia bushii Bush's Muhly | S | | Pedicularis lanceolata Swamp Lousewort | E | |
| Muhlenbergia cuspidata Plains Muhly | E | | Perideridia americana Eastern Eulophus | T | |
| Muhlenbergia expansa Cut-over Muhly | E | | Phacelia ranunculacea Blue Scorpion-weed | S | |
| Muhlenbergia glabriflora Hair Grass | S | | Philadelphus inodorus Mock Orange | E | |
| Myriophyllum heterophyllum Broadleaf Water-milfoil | S | | Philadelphus pubescens Hoary Mock Orange | E | |
| Myriophyllum pinnatum Cutleaf Water-milfoil | S | | Phlox bifida ssp. stellaria Starty Cleft Phlox | T | C2 |
| Najas gracillima Thread-like Najad | S | | Physostegia intermedia Slender Dragon-head | Ē | |
| Nemophila aphylla Small-flowered Baby-blue-eyes | S | | Plantago cordata Heart-leaved Plantain | E | |
| Oenothera linifolia Thread-leaf Sundrops | T | | Platanthera cristata Yellow-crested Orchid | E | |
| Oenothera perennis Small Sundrops | E | - | Platanthera integrilabia White Fringeless Orchid | E | C2 |
| Oenothera triloba Stemless Evening-primrose | T | | Platanthera psycodes Small Purple-fringed Orchid | E | |
| 9 (| | | | _ | |

| | STA KSNPC | | | STAT KSNPC | |
|-----------------------------|--------------|-----|------------------------------------|---------------|----|
| Poa languida | E | | Rhododendron canescens | E | |
| Drooping Bluegrass | | | Hoary Azalea | | |
| Podostemum ceratophyllum | T | | Rhynchosia tomentosa | E | |
| Threadfoot | | | Hairy Snoutbean | | |
| Pogonia ophioglossoides | E | | Rhynchospora globularis | T | |
| Rose Pogonia | | | Globe Beaked-rush | | |
| Polygala cruciata | E | | Rhynchospora macrostachya | E | |
| Crossleaf Milkwort | _ | | Tall Beaked-rush | _ | |
| Polygala nuttallii | E | | Rubus whartoniae | T | C2 |
| Nuttall's Milkwort | _ | | Wharton's Dewberry | _ | |
| Polygala polygama | E | | Rudbeckia subtomentosa | T | |
| Racemed Milkwort | | | Sweet Coneflower | | |
| Polymnia laevigata | E | | Sabatia campanulata | E | |
| Tennessee Leafcup | | | Slender Marsh Pink | | |
| Pontederia cordata | E | | Sagittaria brevirostra | S | |
| Pickerel Weed | | | Short-beaked Arrowhead | | |
| Potamogeton praelongus | E | | Sagittaria graminea | T | |
| White-stem Pondweed | | | Grassleaf Arrowhead | | |
| Potamogeton pulcher | E | | Salvia urticifolia | E | |
| Spotted Pondweed | | | Nettle-leaf Sage | | |
| Prenanthes alba | E | | Sambucus racemosa | T | |
| White Rattlesnake-root | | | European Red Elder | | |
| Prenanthes aspera | E | | Sanguisorba canadensis | E | |
| Rough Rattlesnake-root | | | Canada Burnet | | |
| Prenanthes barbata | E | CZ | Saxifraga michauxii | E | |
| Barbed Rattlesnake-root | | | Michaux's Saxifrage | | |
| Prenanthes crepidinea | S | | Saxifraga micranthidifoli a | E | |
| Nodding Rattlesnake-root | | | Lettuce-leaf Saxifrage | | |
| Psoralea stipulata | E | C1* | Schisandra coccinea | E | |
| Stipuled Scurf-pea | | | Schisandra | | |
| Psoralea tenuiflora | E | | Schizachne purpurascens | T | |
| Few-flowered Scurf-pea | | | Purple Oat | | |
| Ptilimnium capillaceum | T | | Schwalbea americana | E | C1 |
| Mock Bishop-weed | | | Chaffseed | | |
| Ptilimnium nuttallii | E | | Scirpus expansus | S | |
| Nuttall's Mock Bishop-weed | | | Woodland Beakrush | | |
| Pycnanthemum albescens | E | | Scirpus fluviatilis | T | |
| White-leaved Mountain Mint | | • | River Bulrush | • | |
| Pyrola americana | Ē | | Scirpus hallii | E | C2 |
| American Wintergreen | | | Hail's Bulrush | | |
| Ranunculus allegheniensis | S | | Scirpus heterochaetus | E | |
| Allegheny Mountain Crowfoot | | | Slender Bulrush | | |
| Ranunculus ambigens | S | | Scirpus microcarpus | E | |
| _ Water-plantain | | | Smail-fruit Bulrush | | |

| | STAT | TUS | · | STA | TUS | |
|---|-------|------------|--|----------|----------|---|
| | KSNPC | US | <u></u> | KSNPC | US | _ |
| Scleria ciliata | E | | Spiraea virginiana | E | LT | |
| Fringed Nutrush | ~ | | Virginia Spiraea | _ | | |
| Scutellaria saxatilis | Т | CZ | Spiranthes lucida | Т | | |
| Rock Skullcap | • | | Shining Ladies'-Tresses | • | | |
| Sedum telephioides | Т | | Spiranthes magnicamporum | E | | |
| Allegheny Stonecrop | • | | Great Plains Ladies'-Tresses | _ | | |
| Sida hermaphrodita | Т | | Spiranthes odorata | E | | |
| Virginia Mallow | • | | Sweetscent Ladies'-Tresses | ~ | | |
| Silene ovata | Т | α | Sporobolus clandestinus | E | | |
| Ovate Catchfly | • | ~ | Rough Dropseed | _ | | |
| Silene regia | Ε | C2 | Sporobolus heterolepis | E | | |
| Royal Catchfly | | | Northern Dropseed | _ | | |
| Silphium laciniatum | Т | | Stachys eplingii | S | | |
| Compass Plant | • | | Epling's Hedgenettle | | | ٠ |
| Silphium terebinthinaceum | | | Stellaria longifolia | S | | |
| var. lucy-brauniae | s | | Longleaf Stitchwort | 5 | | |
| Lucy Braun's Prairie Dock | 3 | | Streptopus roseus | E | | |
| Smilacina stellata | E | | Rosy Twisted-stalk | | | |
| Starflower False Solomon's-seal | | | Styrax grandifolius | T | | |
| Solidago albopilosa | T | LT | Bigleaf Snowbell | • | | |
| White-haired Goldenrod | • | - 1 | Sullivantia sullivantii | E | | |
| | s | | Sullivantia | | | |
| Solidago buckleyi Buckley's Goldenrod | 3 | | Symphoricarpos albus | Е | | |
| Solidago curtisii | s | | Snowberry | | | |
| Curtis' Goldenrod | • | | Talinum calcaricum | Е | C2 | |
| Solidago puberula | T | | Limestone Fameflower | | CL | |
| Downy Goldenrod | | | Talinum teretifolium | т | | |
| Solidago radula | E | | Roundleaf Fameflower | • | | |
| Western Rough Goldenrod | - | | Taxus canadensis | s | | |
| Solidago roanensis | т | | Canadian Yew | • | | |
| Roan Mountain Goldenrod | | | Tephrosia spicata | E | | |
| | E | LE | Spiked Hoary-pea | <u>.</u> | | |
| Solidago shortii Short's Goldenrod | C | خلسا | Thalictrum coriaceum | E | | |
| | e | | Leatherleaf Meadow-rue | - | | |
| Solidago spathulata Sticky Goldenrod | S | | Thalictrum mirabile | s | | |
| Solidago squarrosa | E | | Little Mountain Meadow-rue | 3 | | |
| Squarrose Goldenrod | E | | Thaspium pinnatifidum | S | | |
| Sparganium eurycarpum | E | | Cutleaf Meadow-parsnip | • | | |
| | | | Thermopsis mollis | E | | |
| Large Bur-reed | E | | • | E | | |
| Sphenopholis pensylvanica | E | | Soft-haired Thermopsis | Т | | |
| Swamp Wedgescale | E | | Thuja occidentalis Northern White Cedar | | | |
| Spiraea alba Narrow-leaved Meadow-sweet | E | • | | E | <i>;</i> | |
| 144110M-164ACA IMEGAAM-2MCCI | | | Torreyochloa pallida Pale Manna Grass | E | • | |
| | | | raic ividina Urass | | | |

| - | STAT KSNPC | rus Us | | STA KSNPC | |
|--|---------------|-------------|---|--------------|-----------|
| Tragia urticifolia Nettle-leaf Noseburn | Е | | Woodsia scopulina Rocky Mountain Woodsia | E | |
| Trepocarpus aethusae Trepocarpus | E | | Xerophyllum asphodeloides Eastern Turkeybeard | E | |
| Trichomanes boschianum Filmy Fern | S | | Zizania aquatica Indian Wild Rice | E | |
| Trichostema setaceum Narrow-leaved Blue Curis | E | | Zizaniopsis miliacea Southern Wild Rice | E | |
| Trientalis borealis Northern Starflower | E | | ANIMALS | | |
| Trifolium reflexum Buffalo Clover | E · | | Gastropods | | |
| Trifolium stoloniferum Running Buffalo Clover | E | LE | Glyphyalinia rhoadsi | τ | |
| Trillium nivale Snow Trillium | E | | Sculpted glyph Mesomphix rugeli | T | |
| Trillium pusillum var. ozarkanum Ozark Least Trillium | E | C2 . | Wrinkled button Pilsbryna sp. | E | |
| Trillium pusillum var. pusillum Least Trillium | E | æ | A snail (undescribed) Triodopsis densifera | T | |
| Trillium undulatum Painted Trillium | T | | Big-tooth whitelip Vertigo bollesiana | T | |
| Ulmus serotina September Elm | S | | Delicate vertigo | E | |
| Utricularia vulgaris Greater Bladderwort | E | | Vertigo clappi Cupped vertigo Vitrizonites latissimus | E | |
| Vallisneria americana | S | | Glassy grapeskin | E | |
| Eel-grass Veratrum parviflorum Small forward Falsa Hellahora | T | | Unionids (Mussels) | | |
| Small-flowered False Hellebore Veratrum woodii False Hellebore | T | | Alasmidonta atropurpurea Cumberland elktoe | E | C2 |
| Vernonia noveboracensis New York Ironweed | E | | Alasmidonta marginata Elktoe | T | |
| Viburnum lentago Nannyberry | E | | Cumberlandia monodonta Spectaclecase | E | C2 |
| Viburnum nudum Possum Haw Viburnum | E | | Cyprogenia stegaria Fanshell | E | LE |
| Viola egglestonii Eggleston's Violet | S | | Epioblasma brevidens Cumberlandian combshell | E | C2 |
| Viola walteri Walter's Violet | E | | Epioblasma capsaeformis Oyster mussel | E | C2 |
| Vitis rupestris Sand Grape | T | | Epioblasma florentina walkeri Tan riffleshell | E | LE |

| | | TUS | | STAT KSNPC | |
|--|-------|------------|---|---------------|-----------|
| | KSNPC | US | | KSNPC | <u>US</u> |
| Epioblasma obliquata obliquata Catspaw | E | LE | Quadrula cylindrica cylindrica Rabbitsfoot | . Т | |
| Epioblasma torulosa rangiana Northern riffleshell | E | æ | Quadrula fragosa Winged mapleleaf | E | PE |
| Epioblasma triquetra Snuffbox | S | | Simpsonaias ambigua Salamander mussel | T | C2 |
| Fusconaia subrotunda subrotunda Long-solid | T | | Toxolasma lividus Purple lilliput | E | C2 |
| Hemistena lata Cracking pearlymussel | E | LE | Toxolasma texasensis Texas lilliput | S | |
| Lampsilis abrupta Pink mucket | E . | LE | Villosa fabalis Rayed bean | E | C2 |
| Lampsilis ovata Pocketbook | E | | Villosa lienosa Little spectaclecase | S | |
| Lasmigona compressa Creek heelsplitter | E | | Villosa ortmanni Kentucky creekshell | E | C2 |
| Lasmigona subviridis Green floater | E | | Villosa trabalis Cumberland bean | E | LE |
| Leptodea leptodon Scaleshell | E | a | Villosa vanuxemensis Mountain creekshell | T | |
| Lexingtonia dolabelloides Slabside pearlymussel | E | æ | Crustaceans | | |
| Obovaria retusa Ring pink | E | LE | Barbicambarus comunus | s | |
| Pegias fabula Little-wing pearlymussel | E | LE | Bottlebrush crayfish Caecidotea barri | E | C2 |
| Plethobasus cooperianus Orange-foot pimpleback | E | LE | Clifton cave isopod Cambarellus puer | E | |
| Pleshobasus cyphyus Sheepnose | S | | A dwarf crayfish Cambarellus shufeldtii | S | |
| Pleurobema clava Clubshell | E | æ | Cajun dwarf crayfish Cambarus ornatus | s | |
| Pleurobema oviforme Tennessee clubshell | E | æ | A crayfish Cambarus parvoculus | E | |
| Pleurobema plenum Rough pigtoe | E | LE | A crayfish Gammarus bousfieldi | E | C2 |
| Pleurobema pyramidatum Pyramid pigtoe | E | 3 B | Bousfield's amphipod Macrobranchium ohione | . E | |
| Potamilus capax Fat pocketbook | E | LE | Ohio shrimp Orconectes australis | т | |
| Potamilus purpuratus Bleufer | E | | A crayfish Orconectes bisectus | T | |
| Ptychobranchus subtentum Fluted kidneyshell | Ť | | Crittenden crayfish Orconectes inermis A crayfish | • • | • '. |

| | STAT KSNPC | rus us | | STAT KSNPC | TUS US |
|---|---------------|-------------|---|---------------|-----------|
| | . | | F. de control of the | | · |
| Orconectes jeffersoni | E | α | Etheostoma cinereum | T | |
| Louisville crayfish Orconectes lancifer | E | | Ashy darter Etheostoma fusiforme | E | |
| A crayfish | L | | Swamp darter | | |
| Orconectes palmeri | Е | | Etheostoma maculatum | T | |
| A crayfish | _ | • | Spotted darter | _ | |
| Orconectes pellucidus | S | | Etheostoma microlepidum | Е | |
| Eyeless crayfish | | | Smallscale darter | | |
| Palaemonias ganteri | E | LE | Etheostoma microperca | Ε | |
| Kentucky cave shrimp | | | Least darter | | |
| Procambarus viaeviridis | T | | Etheostoma nigrum susanae | E | C2 |
| A crayfish | | | Cumberland johnny darter | | |
| Stygobromus vitreus | S | | Etheostoma parvipinne | S. | |
| An amphipod | | | Goldstripe darter | _ | |
| Your san | | | Etheostoma proeliare | T | |
| Insects | | | Cypress darter | c | |
| Madeonhylar sp | T | | Etheostoma sagitta spilotum Агтоw darter | S | |
| Madeophylax sp. A caddisfly (undescribed) | 4 | | Etheostoma sp. | s | |
| A caddbay (dildcocritocs) | | | Firebelly darter (undescribed) | 3 | |
| Rishes | | | Etheostoma swaini | S | |
| | | | Gulf darter | _ | |
| Acipenser fulvescens | E | C2 | Etheostoma tippecanoe | S | |
| Lake sturgeon | | | Tippecanoe darter | | |
| Alosa alabamae | · E | | Etheostoma zonale lynceum | S | |
| Alabama shad | | | Banded darter | | |
| Amblyopsis spelaea | S | æ | Fundulus chrysotus | E | |
| Northern cavefish | _ | | Golden topminnow | _ | |
| Ammocrypta asprella | E | C2 | Fundulus notti | E | |
| Crystal darter | _ | | Starhead topminnow | _ | |
| Ammocrypta clara | E | | Hemitremia flammea | E | |
| Western sand darter Ammocrypta pellucida | s | C2 | Flame chub | - | |
| Eastern sand darter | 3 | CZ. | Hybognathus hayi Cypress minnow | E | |
| Ammocrypta vivax | E | | Hybognathus placitus | S | |
| Scaly sand darter | _ | | Plains minnow | • | |
| Alinostomus elongatus | S | | Hybopsis gelida | S | CZ |
| Redside dace | | | Sturgeon chub | • | |
| Clinostomus funduloides | S | | Hybopsis gracilis | S | |
| Rosyside dace | - | | Flathead chub | - | |
| E rim yzon sucetta | T | | Hybopsis insignis | E | |
| Lake chubsucker | • • • • | | Blotched chub | | |
| Esox niger | S | | Hybopsis meeki | S | CZ |
| Chain pickerel | | | Sicklefin chub | | |

| | STAT | US | • | | TUS |
|-------------------------------|-------------|-----------------|---------------------------|------------|-----|
| · | KSNPC | US | | KSNPC | US |
| Hybopsis x-punctata | E | | Noturus exilis . | E | |
| Gravel chub | | | Slender madtom | _ | |
| Ichthyomyzon castaneus | S | | Noturus hildebrandi | S | |
| Chestnut lamprey | | | Least madtom | • | |
| Ichthyomyzon fossor | Ť | | Noturus phaeus | S | |
| Northern brook lamprey | • | | Brown madtom | • | |
| Ichthyomyzon gagei | E | | Noturus stigmosus | s | |
| Southern brook lamprey | - | | Northern madtom | • | |
| Ichthyomyzon greeleyi | T | | Percina burtoni | E | |
| Mountain brook lamprey | _ | | Blotchside darter | _ | |
| Ictiobus niger | S | | Percina evides | S | |
| Black buffalo | _ | | Gilt darter | _ | |
| Lampetra appendix | T | | Percina macrocephala | T | C2 |
| American brook lamprey | • | | Longhead darter | • | , |
| Lepisosteus spatula | E | | Percina squamata | E | C2 |
| Alligator gar | | | Olive darter | ~ | 02 |
| Lepomis marginatus | E. | | Percopsis omiscomaycus | S | |
| Dollar sunfish | | | - Trout-perch | . • | |
| Lepomis punctatus | T | | Phenacobius uranops | S | |
| Spotted sunfish | _ | | Stargazing minnow | _ | |
| Lota lota | S | | Phoxinus cumberlandensis | E | LT |
| Burbot | • | | Blackside dace | | ~. |
| Menidia beryllina | T | | Rhinichthys cataractae | E | |
| Inland silverside | - | | Longnose dace | | |
| Moxostoma atripinne | S | | Scaphirhynchus albus | E | LE |
| Blackfin sucker | | | Pallid sturgeon | _ | |
| Moxostoma poecilurum | S | | Typhlichthys subterraneus | S | |
| Blacktail redhorse | _ | | Southern cavefish | • | |
| Nocomis biguttatus | S | | Umbra limi | T | |
| Hornyhead chub | _ | | Central Mudminnow | • | |
| Notropis amnis | Ē | | | | |
| Pallid shiner | - | | Amphibians | | |
| Notropis camurus | S | | umhmorene | | |
| Bluntface shiner | • | | Amphiuma tridactylum | E | |
| Notropis hudsonius | S | | Three-toed Amphiuma | _ | • |
| Spottail shiner | | | Eurycea guttolineata | T | |
| Notropis maculatus | Т | | Three-lined Salamander | - | |
| Taillight shiner | | | Hyla avivoca | T | |
| Notropis venustus | S | | Bird-voiced Treefrog | • | |
| Blacktail shiner | ~ | | Hyla cinerea | S | |
| Notropis sp. | E (| C2 | Green Treefrog | | |
| Palezone shiner (undescribed) | | ~- - | Hyla gratiosa | · S | |
| Notropis sp. | E | | Barking Treefrog | | |
| Sawfin shiner (undescribed) | | | Hyla versicolor | S | |
| • | | | Gray Treefrog | T: | • |

| I | STAT KSNPC | | | STAT KSNPC | rus Us |
|---|---------------|----|---|---------------|-----------|
| Plethodon cinereus Redback Salamander | S | | Thamnophis sauritus sauritus Eastern Ribbon Snake | S | |
| Plethodon wehrlei Wehrle's Salamander | E | | Birds | | |
| Rana areolata circulosa Northern Crawfish Frog | S | | Accipiter striants | s | |
| Rana pipiens Northern Leopard Frog | S | | Sharp-shinned Hawk Activis macularia | E | |
| Reptiles | | | Spotted Sandpiper Aimophila aestivalis | E | C2 |
| | s | | Bachman's Sparrow Ammodramus henslowii | s | |
| Apalone mutica mutica Midland Smooth Softshell | 3 | | Henslow's Sparrow | | |
| Chrysemys picta dorsalis Southern Painted Turtle | S | | Anas discors Blue-winged Teal | Е | |
| Clonophis kirılandii Kirtland's Snake | E | CZ | Ardea herodias Great Blue Heron | S | |
| Elaphe gunata gunata Corn Snake | S | | Asio flammeus Short-eared Owl | E | |
| Eumeces anthracinus anthracinus | T | | Bartramia longicauda | E | |
| Northern Coal Skink Eumeces anthracinus pluvialis | E | | Upland Sandpiper Botaurus lennginosus | E | |
| Southern Coal Skink Eumeces inexpectatus | S | | American Bittern Bubulcus ibis | S | |
| Southeastern Five-lined Skink Farancia abacura reinwardii | s | | Cattle Egret Casmerodius albus | E | |
| Western Mud Snake Lampropelsis mangulum elapsoides | S | | Great Egret Certhia americana | E | |
| Scarlet Kingsnake Macroclemys temminckii | т | æ | Brown Creeper Chondestes grammacus | Т | |
| Alligator Snapping Turtle Nerodia cyclopion | E | | Lark Sparrow Circus cyaneus | T | |
| Mississippi Green Water Snake Nerodia erythrogaster neglecta | s | a | Northern Harrier Cistothorus platensis | s | |
| Copperbelly Water Snake Nerodia fasciata confluens | E | | Sedge Wren Corvus corax | E | |
| Broad-banded Water Snake | T | | Common Raven Corvus ossifragus | S | |
| Ophisaurus attenuatus longicaudus Eastern Slender Glass Lizard | _ | | Fish Crow | • | |
| Pituophis melanoleucus melanoleucus Northern Pine Snake | T | | Dendroica fusca Blackburnian Warbler | T | |
| Sistrurus miliarius streckeri Western Pigmy Rattlesnake | T | | Dolichonyx oryzivorus Bobolink | s | |
| Thamnophis proximus proximus Western Ribbon Snake | T, | | Egretta caerulea Little Blue Heron | E | |

Kentucky Endangered, Threatened, and Special Concern Species (March, 1991) (continued)

| | STAT | | | STAT | |
|-----------------------------|-------|----|---------------------------------|------------|----------|
| | KSNPC | US | | KSNPC | US |
| Empidonax minimus | T | | Tyto alba | S | |
| Least Flycatcher | | | Barn Owl | | |
| Fulica americana | E | | Vermivora chrysoptera | T | |
| American Coot | | | Golden-winged Warbler | | |
| Gallinula chloropus | T | | Vireo bellii | S | |
| Common Moorhen | | | Bell's Vireo | | |
| Haliaeetus leucocephalus | E | LE | Wilsonia canadensis | S | |
| Bald Eagle | | | Canada Warbler | | |
| ctinia mississippiensis | S | | | | |
| Mississippi Kite | | | Mammals | | |
| xobrychus exilis | T | | | _ | |
| Least Bittern | | | Clethrionomys gapperi maurus | S | C2 |
| unco hyemalis | S | | Kentucky Red-backed Vole | | |
| Dark-eyed Junco | | | Mustela nivalis | S | |
| ophodytes cucullatus | E | | Least Weasel | | |
| Hooded Merganser | | | Myotis austroriparius | E | α |
| lyctanassa violacea | T | | Southeastern Myotis | | |
| Yellow-crowned Night-Heron | | | Myotis grisescens | E | LE |
| lycticorax nycticorax | E | | Gray Myotis | | |
| Black-crowned Night-Heron | | | Myotis leibii | E | CZ |
| andion haliaetus | T | | Eastern Small-footed Myotis | | |
| Ospr ey | | | Myotis septentrionalis | S | |
| asserculus sandwichensis | S | | Northern Long-eared Myotis | | |
| Savannah Sparrow | | | Myotis sodalis | E | LE |
| halacrocorax auritus | E | | Indiana Myotis | | |
| Double-crested Cormorant | | | Nycticeius humeralis | T | |
| heucticus ludovicianus | S | | Evening Bat | | |
| Rose-breasted Grosbeak | | | Peromyscus gossypinus | T | |
| icoides borealis | Ε | LE | Cotton Mouse | | |
| Red-cockaded Woodpecker | | | Plecotus rafinesquii | T . | C2 |
| odilymbus podiceps | E | | Rafinesque's Big-eared Bat | | |
| Pied-billed Grebe | | | Plecotus townsendii virginianus | E | LE |
| ooecetes gramineus | E | | Virginia Big-eared Bat | | |
| Vesper Sparrow | | | Sorex cinereus | S | |
| allus elegans | E | | Masked Shrew | | |
| King Rail | | | Sorex dispar | E | C2 |
| iparia riparia | S | | Long-tailed Shrew | | |
| Bank Swallow | | | Spilogale putorius | S | |
| terna antillarum athalassos | E | LE | Eastern Spotted Skunk | | |
| Interior Least Tern | | | Sylvilagus transitionalis | E | C2 |
| hryomanes bewickii | S | | New England Cottontail | | |
| Bewick's Wren | | | Ursus americanus | S | |
| | | | Black Bear | | |
| | | | | | |

Kentucky Endangered, Threatened, and Special Concern Species (March, 1991) (continued)

Key to Status Categories

(KSNPC) Kentucky State Nature Preserves Commission

- E: Endangered. A species in danger of extirpation and/or extinction throughout all or a significant part of its range in Kentucky.
- T: Threatened. A species likely to become endangered within the foreseeable future throughout all or a significant part of its range in Kentucky.
- S: Special Concern. A species that should be monitored because (a) it exists in a limited geographic area, (b) it may become threatened or endangered due to modification or destruction of habitat, (c) certain characteristics or requirements make it especially vulnerable to specific pressures, (d) experienced researchers have identified other factors that may jeopardize it, or (e) it is thought to be rare or declining but insufficient information exists for assignment to the threatened or endangered status categories.

(US) Endangered Species Act of 1973

For status category definitions see United States Fish and Wildlife Service (1988. The Endangered Species Act of 1973 as amended through the 100th Congress. United States Government Printing Office, Washington, District of Columbia; 1990. Endangered and threatened wildlife and plants; review of plant taxa for listing as endangered or threatened species; notice of review. Federal Register 55:6184-6229).

US statuses were taken from United States Fish and Wildlife Service (1989. Endangered and threatened wildlife and plants; animal notice of review. Federal Register 54:554-579; 1990. Endangered and threatened wildlife and plants. United States Government Printing Office, Washington, District of Columbia; 1990. Endangered and threatened wildlife and plants; review of plant taxa for listing as endangered or threatened species; notice of review. Federal Register 55:6184-6229) and subsequent updates.

LE: Listed Endangered

PE: Proposed Endangered

LT: Listed Threatened

PT: Proposed Threatened

C1: Status Review (* indicates likelihood of extinction)

C2: Status Review

3B: Not a species under the Endangered Species Act

Kentucky Endangered, Threatened, and Special Concern Species (March, 1991) (continued)

Some United States Fish and Wildlife Service candidates for listing (C2) are not monitored by the Kentucky State Nature Preserves Commission because (1) they are not considered rare in Kentucky (Table 1) or (2) additional information is required to determine their status in the state (Table 2). Statuses were taken from United States Fish and Wildlife Service (1989. Endangered and threatened wildlife and plants; animal notice of review. Federal Register 54:554-579; 1990. Endangered and threatened wildlife and plants; review of plant taxa for listing as endangered or threatened species; notice of review. Federal Register 55:6184-6229).

Table 1: Federal candidate species not considered rare in Kentucky.

| PLANTS | Amphibians | | |
|------------------------------------|--|--|--|
| Carex purpurifera Purple Sedge | Cryptobranchus alleganiensis alleganiensis Eastern Hellbender | | |
| ANIMALS | Birds | | |
| Crustaceans . | Lanius ludovicianus migrans Migrant Loggerhead Shrike | | |
| Cambarus batchi Bluegrass crayfish | Mammals | | |
| Fishes | Neotoma floridana magister Eastern Woodrat | | |
| Cycleptus elongatus Blue sucker | Sorex hoyi winnemana Pygmy Shrew | | |

Table 2: Federal candidate species for which more information is needed to determine their status in Kentucky.

ANIMALS

| | ANIMALS |
|----------------------------------|--|
| Gastropods | Lordithon niger Black lordithon rove beetle |
| Glyphyalinia raderi | Lytrosis permagnaria |
| Maryland glyph | A geomtrid moth |
| Leptoxis praerosa | Ophiogomphus howei |
| Onyx rocksnail | Pygmy snaketail |
| Lithasia armigera | Pseudanophthalmus calcareus |
| Armored rocksnail | Limestone cave beetle |
| Lithasia geniculata | Pseudanophthalmus frigidus |
| Ornate rocksnail | Icebox cave beetle |
| Lithasia salebrosa | Pseudanophthalmus hypolithos |
| Muddy rocksnail | Stone-dwelling cave beetle |
| Lithasia verrucosa | Pseudanophthalmus rogersae |
| Varicose rocksnail | Roger's cave beetle |
| Insects . | Pseudanophthalmus scholasticus Schoolhouse cave beetle |
| | Stylurus notatus |
| Cheumatopsyche helma | Elusive clubtail |
| Helma's cheumatopsyche caddisfly | |
| Dryobius sexnotatus | |
| Six-banded longhorn beetle | |

TELEPHONE MEMORANDUM

U. S. EPA Region IV Simmons Casket Company Dix River & its tributaries fishery information BVWST Project 52011.020 BVWST File May 21, 1992 8:30 a.m.

To:

Brent Kuhl, Ecology Specialist

Company:

Environmental Science and Engineering, Inc.

Phone No.:

314-567-4600

Recorded by:

Carter Helm

Mr. Kuhl authored the August 1991 Report, <u>Kentucky River Aquatic Study</u>, and offered the following information: the Turkey Creek, Gilberts Creek and the Dix River all have been used for recreational fishing. The Dix River is used for recreational swimming. There are no commercial fisheries in the area. The following species are recreationally fished: shiners, bluegill, large mouth bass, white bass, channel catfish, brown trout and rainbow trout.

0.0000

0.5000

0.5000

| | SIMMONS CASKET COMPANY LATITUDE 37:36:21 LONGITUDE 84:34:35 1980 POPULATION SECTOR | | | | | | | | |
|--|---|---------------------------------|-----------|------------------|----------------------------|---------------------|--|--|--|
| KM | ر - لي 0.00400 | .400810 | .810-1.60 | 1.60-3.20 | 3.20-4.80 | 4.80-6.40 | SECTOR TOTALS | | |
| S 1 S 2 S 3 S 4 S 5 S 6 S 7 S 8 | _ | 7 0 0 0 0 0 0 | | 0 0 0 0 | 0 0 0 0 0 0 | 0 0 1614 | 3372 1813 0 0 0 1614 0 | | |
| RING 0 7 3347 1831 0 1614 6799 TOTALS press RETURN to continue MENU: Geodata Handling Data List procedures Entennnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn | | | | | | | | | |
| GEMS> next [ERR-039] Type YES to confirm the EXIT command; type NO to restart GEMS GEMS> yes \$ logout HTW logged out at 10-JUN-1992 14:06:36.30 Itemized resource charges, for this session, follow: | | | | | | | | | |
| ACCT PROJ USER | : VAXTM1 : 9040 : GEMS0001 : HTW [000710, | | | BILL] WEEK | ING PERIOD: | 920601 WEDNESDAY | 14:04:10.40 14:06:36.30 | | |
| DESC | DESCRIPTION OF CHARGE QUANTITY EXPENDITURE | | | | | | | | |

This total reflects the charges for this process only, subprocesses created during this session are accounted for separately

(Seconds) 146 (Seconds) 9

Enter selection:

ALL CHARGE LEVELS 300 baud

TOTAL FOR THIS SESSION

CPU TIME

SEP 0 3 1992

4WD-WPB

Carter J. Helm
Project Scientist
B & V Waste Science and Technology Corp.
1117 Perimeter Center West
Suite W-212
Atlanta, Georgia 30338

RE: Simmons Casket Company Site (KYD050074889)
Lancaster, Garrard County, Kentucky
Draft Site Inspection Report

Dear Mr. Helm,

Pursuant to our phone conversation on August 27, 1992, please address the following comments.

Executive Summary, para 3 - Calcium and sodium are not routinely considered contaminants and are not being used as contaminants of concern to score the site. Additionally they are naturally occurring and are probably not the result of past activities or operations at the site.

4.1 Sampling Locations - The waste source area has been calculated incorrectly. Available information does not indicate that this entire large area has been affected by the activities and operations that led to the contamination of the soil in the surface soil samples. Additionally, the two sediment samples cannot be used in conjunction with the surface soil samples to establish a large contaminated soil area unless evidence is available that indicates that this entire area is a source. The sources would be more accurately and realistically characterized as separate areas of contaminated soil associated with each operation (i.e. drum storage area, old loading dock area, dust collector area etc.).

HRS Preliminary Score -Please recalculate the site score utilizing more accurately characterized sources.

If you have any questions regarding these comments, please do not hesitate to call me at (404)347-5065.

Sincerely,

Loften Carr Site Assessment Manager

cc: H. Weiland, BVWSEE. bcc: Bozeman, U.S.EPA

LC:m:09/01/92x5065 Disk: V-Wright Doc: simmons.cmt

CARR DEIHO

4WD-WPB

Mr. Lynn Osborne Allison Abrasives 163 Industry Road Lancaster, Kentucky 40444

RE: Simmons Casket Company
Lancaster Garrard Count

Lancaster, Garrard County, Kentucky

KYD050074889

Dear Mr. Osborne:

As per our phone conversation February 24, 1992, I am enclosing a copy of the Field Study Plan, Site Inspection, Simmons Casket Company, Lancaster, Garrard County, Kentucky. Regarding your request for the file material in the possession of Carter Helm of B & V Waste Science and Technology on the above referenced date, you will need to request in writing this information via the:

U.S. EPA Freedom of Information Act (FOIA) Office 345 Courtland Street, N.E. Atlanta, Georgia 30365

Attn: Walton Jones

You may reference our phone conversation and my name in the request letter to insure that the request reaches me in a timely manner. All of the available file information not subject to any FOIA exemptions will be rovided to you.

If you have any further questions, please call me at (404) 347-5065.

Sincerely yours,

Loften Carr Site Assessment Manager

Enclosures

LC:m:03/03/92x5065 Disk: Carr Doc: simmons.ltr

CARR DEIHL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region IV

Environmental Services Division College Station Road, Athens, Ga. 30613

****MEMORANDUM*****

To File KYD 050 074 889

DATE: 04/14/92

SUBJECT: Results of Extractable Organic Analysis;

92-03/31 SIMMONS CASKET CO LANCASTER KY CASE NO: 17847

FROM: Robert W. Knight

Chief, Laboratory Evaluation/Quality Assurance Section

TO: JOE SLYKERMAN

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

CC;

chalic Hooper 3286

PLB 1260

PCB-1260 24000 4/ty

WPB/SAS

ATLANTA, GA

ORGANIC DATA QUALIFIER REPORT

Case Number 17847 Project Number 92-0331 SAS Number Site ID. Simmons Casket Co., Lancaster, KY.

| Affected Samples | Compound or Fraction | Flag <u>Used</u> | Reason |
|----------------------------------|----------------------|---------------------|-----------------------------------|
| <u>Volatiles</u> none | | | |
| Extractables all samples | all extractables | J | excessive extraction holding time |
| <u>Pesticides</u> all samples | aldrin | J | low GPC recovery |

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES

*A-AVERAGE VALUE

*K-ACTUAL VALUE II

*U-MATERIAL WAS AH

*R-QC INDICATES TH *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEW NECESSARY OF PRESENCE GIVEN FOR VERIFICATION 읶 MATERIAL

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REMARKS
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

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REMARKS

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| NT SYSTEM S, GA. | * * * * * * * * * * * * * * * * * * * | D. NO.: CL62 * * * * * * * * * * * * * * * * * * * | 3-NITROANILINE ACENAPHTHENE ACENAPHTHENE 2.4-DINITROPHENOL DIBENZOFURAN 2.4-DINITROPHENOL DIETHYL DIETHYL PHTHALATE 4-CHLOROPHENYL PHENYL ETHER FLUORENE A-NITROANILINE 2-METHYL-4,6-DINITROPHENOL N-NITROSOUIPHENYL ETHER HEXACHLOROPHENYL PHENYL PHENANTHRENE ANTHRACENE CARBAZOLE DI-N-BUTYLPHTHALATE FLUORANTHENE ANTHRACENE CARBAZOLE DI-N-BUTYLPHTHALATE FLUORANTHENE BENZO(A)ANTHRACENE CARBAZOLE DI-N-BUTYLPHTHALATE FLUORANTHENE BENZO(A)ANTHRACENE CHRYSENE BENZO(A)ANTHRACENE CHRYSENE BIS (2-ETHYLHEXYL) PHTHALATE BIS (2-ETHYLHEXYL) PHTHALATE DI-N-OCTYLPHTHALATE BENZO(B AND/OR K) FLUORANTHENE BENZO(B AND/OR K) FLUORANTHENE BENZO(CHI)PERYLENE BENZO(CHI)PERYLENE BENZO(CHI)PERYLENE BENZO(CHI)PERYLENE BENZO(CHI)PERYLENE |
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| | EXTRACTABLE ORGANICS DATA REPORT *** PROJECT NO. 92-0331 SAMPLE NO. 65468 ** SOURCE: SIMMONS CASKET CO ** STATION ID: 55-03 | CASE NO.: 17847 * * * * * * * * * * * * * * * * * * * | 980) PHENOL 440UJ BIS (2-CHLOROETHYL) ETHER 440UJ 1.3-DICHLOROBENZENE 440UJ 1.2-DICHLOROBENZENE 440UJ 2.2'-CHLOROBENZENE 440UJ 2.2'-CHLOROBENZENE 440UJ 3-AND/OR 4-)NETHYLPHENOL 440UJ 1.2-DICHLOROETHANE 440UJ 2.4-DICHLOROETHANE 440UJ 2.4-DICHLOROPHENOL 440UJ 2.4-DICHLOROPHENOL 440UJ 2.4-DICHLOROPHENOL 440UJ 2.4-DICHLOROPHENOL 1.2,4-DICHLOROPHENOL 440UJ 2.4-DICHLOROPHENOL 440UJ 2.4-DICHLOROPHENOL 1.2,4-DICHLOROPHENOL 440UJ 2.4-DICHLOROPHENOL 2.4-DICHLOROPHENOL 1.2,4-DICHLOROPHENOL 440UJ 2.4.6-TRICHLOROPHENOL 440UJ 3.6-DINITROTOLUENE |
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| | UKSANICS DAT * * * * * * * * * * * * * * * * * * * | NO.: 17847 * * * * * * | PHENOL BIS (2-CHLOROETHYL) ETHER 2-CHLOROPHENOL 1.3-DICHLOROBENZENE 1.4-DICHLOROBENZENE 1.2-DICHLOROBENZENE 2.2'-CHLOROBENZENE 2.2'-CHLOROBENZENE 2.2'-CHLOROBENZENE 2.2'-CHLOROBENZENE 2.2'-CHLOROBENZENE N-I TROSODI-N-PROPYLETHER (3-AND/OR 4-)METHYLPHENOL N-NITROBENZENE N-NITROBENZENE 1.2'-4-DIMETHYLPHENOL 2'-4-DIMETHYLPHENOL 1'-2'-4-TRICHLOROBENZENE NAPHTHALENE HEXACHLOROBINADIENE 4-CHLOROANILINE HEXACHLOROCYCLOPENTADIENE 4-CHLOROANILINE HEXACHLOROCYCLOPENTADIENE 2-METHYLNAPHTHALENE HEXACHLOROCYCLOPENTADIENE 2-CHLOROANILINE 2-CHLOROANILINE DIMETHYL PHITALATE 2-CHLORONAPHTHALENE DIMETHYL PHITALATE 2-CHLOROANILINE |
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| SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | D. NO.: CL64 *** * * * * * * * * * * * * * * * * * | 1100UJ 3-NITROANILINE 1100UJ 4-NITROANILINE 1100UJ 4-NITROPHENOL 1100UJ 4-DINITROPHENOL 1100UJ 2-DINITROPHENOL 120UJ 01ETHYL PHTHALATE 420UJ 01ETHYL PHTHALATE 420UJ 1-CHENORPHENOL 1100UJ 4-NITROAPHENOL 1100UJ 2-METHYL-4, 6-DINITROPHENOL 1100UJ 3-METHYL-4, 6-DINITROPHENOL 1100UJ 3-MITHYL-4, 6-DINITROPHENOL 1100UJ 2-METHYL-4, 6-DIN |
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| REPORT | * * * * * * * * * * * * * * * * * * * | ** CASE NO.: 17847 *** * * * * * * * * * * * * * * * * * | 3200J PHENOL 420UJ 2-CHLOROETHYL) ETHER 420UJ 2-CHLOROBENZENE 420UJ 1.3-DICHLOROBENZENE 420UJ 1.2-DICHLOROBENZENE 51 2.2-DICHLOROBENZENE 51 2.2-DICHLOROBENZENE 51 2.2-DICHLOROBENZENE 51 2.2-DICHLOROBENZENE 420UJ 2.2'-CHLOROSTANE 420UJ 2.2'-CHLOROSTANE 420UJ NITROSENZENE 420UJ NITROSENZENE 420UJ 1.5OPHORONE 420UJ 2.4-DIMETHYLPHENOL 420UJ 2.4-DICHLOROETHANE 420UJ 2.4-DICHLOROBHENOL 420UJ 2.4-TRICHCOROBENZENE 420UJ 2.4-DICHLOROBHENOL 420UJ 1.2-LA-TRICHCOROBHENOL 420UJ 2.4-TRICHCOROBHENOL 420UJ 2.4-CHLOROG-3-METHYLPHENOL 420UJ 2.4-G-TRICHLOROPHENOL |

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*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| 04/13/92 | ***** | * | |
|--|---|--|--|
| WENT SYSTEM ENS, GA. | * * * * * * * * * * * * * * * * * * * | NO.: CL65 * * * * * * * * * * * * * * * * * * * | 3-NITROANILINE ACENAPHTHENE ACENAPHTHENE 2,4-DINITROPHENOL DIBENZOFURAN 2,4-DINITROPHENOL DIETHYL PHTHALATE DIETHYL PHTHALATE A-CHLOROPHENYL PHENYL ETHER FLUORENE THYL-4,6-DINITROPHENOL N-NITROSODIPHENYL ETHER FLUORENE A-NITROSODIPHENYL ETHER FLUORENE A-NITROSODIPHENYL ETHER HEXACHLOROBHENOL N-NITROSODIPHENYL ETHER HEXACHLOROBHENOL PHENANTHRENE ACRBAZOLE DI-N-BUTYL PHTHALATE FLUORANTHENE BENZOL DI-N-BUTYL PHTHALATE BENZOL S,3'-DICHLOROBENZIDINE BENZOL BITYL PHTHALATE BENZOL BITYL PHTHALATE BENZOL S,3'-DICHLOROBENZIDINE BENZOL BITYL PHTHALATE BENZOL BITTYL PHTHALATE BENZOL BITTYL PHTHALATE BENZOL BITTYL PHTHALATE BENZOL BENZOL BITTYL PHTHALATE BENZOL BENZOL BITTYL PHTHALATE BENZOL |
| S MANAGEN ESD, ATHE | * * * * * PROG CITY: | D. N. UG/KG | |
| SAMPLE AND ANALYSIS MANAGEMENT EPA-REGION IV ESD, ATHENS, | * * * * * * * * * * * * * * * * * * * | SAS NO.: | |
| | * * * * * * NO. 65471 | * * * * * * * * * * * * * * * * * * * | ANE (HCCP) |
| | UKGANICA DATA KEPUK 1 NO. 92-0331 SAMPLE : SIMMONS CASKET CO N ID: SS-06 | CASE NO.: 17847 * * * * * * * * * * * * * * * * * * * | PHENOL BIS(2-CHLOROPENOL 2-CHLOROPHENOL 1,3-DICHLOROBENZENE 1,2-DICHLOROBENZENE 1,2-DICHLOROBENZENE 2,2'-CHLOROBENZENE 2,2'-CHLOROBENZENE 2,2'-CHLOROBENZENE 2,2'-CHLOROPHENOL 3,3-AND/OR 4-)METHYLPHENOL NITROBENZENE ISOPHORONE ISOPHORONE ISOPHORONE ISOPHORONE ISOPHORONE ISOPHORONE ISOPHORONE ISOPHOROPHENOL 2,4-DIMETHYLPHENOL 1,2,4-TRICHLOROPHENOL 1,2,4-TRICHLOROPHENOL 2-HTRICHLOROPHENOL 2-HTRICHLOROPHENOL 2-GLOROBUTADIENE HEXACHLOROPHENOL 2-GLOROBUTADIENE HEXACHLOROPHENOL 2-GLOROPHENOL 3-GLOROPHENOL 3-GLOROPHEN |
| | ≩ <i>"</i> | ** CASE *** * * UG/KG | |

REMARKS EXCESSIVE HOLDING TIME

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*YU-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65463 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-01 CASE.NO.: 17847 SAS NO.: PROG ELEM: NSF COLLECTED BY: B STAFFORD ** CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1130 STOP: 00/00/00
D. NO.: CL57 MD NO: CL57 ** ** ** ** * * ** **

ANALYTICAL RESULTS UG/KG

3000J 3 UNIDENTIFIED COMPOUNDS

REMARKS EXCESSIVE HOLDING TIME

FOOTNOTES

REMARKS

CONNOTES*

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-02 CASE.NO.: 17847 SAS NO.: PROG ELEM: NSF COLLECTED BY: B STAFFORD ** CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1300 STOP: 00/00/00
D. NO.: CL58 MD NO: CL58 ** ** * * ** * * * *

ANALYTICAL RESULTS UG/KG

600J 1 UNIDENTIFIED COMPOUND

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65465 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD ** SOURCE: SIMMONS CASKET CO STATION ID: SD-03 CASE.NO.: 17847 CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1340 STOP: 00/00/00
D. NO.: CL59 MD NO: CL59 ** ** ** SAS NO.: **

ANALYTICAL RESULTS UG/KG

90JN BENZOTH1 AZOLE

REMARKS EXCESSIVE HOLDING TIME

**

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD

SOURCE: SIMMONS CASKET CO CITY: LANCASTER

CITY: LANCASTER COLLECTION START: 02/26/92 1450 STOP: 00/00/00 STATION ID: SD-04 MD NO: CL60 ** CASE.NO.: 17847 SAS NO.: D. NO.: CL60

** ** **

ANALYTICAL RESULTS UG/KG

2000J 1 UNIDENTIFIED COMPOUND

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

SAS NO.:

STATION ID: SS-02

CASE . NO : 17847

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PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO PROG ELEM: NSF COLLECTED BY: B STAFFORD

ST: KY CITY: LANCASTER

COLLECTION START: 02/26/92 1525 STOP: 00/00/00

MD NO: CL61 D. NO.: CL61

** **

ANALYTICAL RESULTS UG/KG

1000JN HYDROXYBENZALDEHYDE (2 ISOMERS) HYDROXYBENZONITRILE 100JN METHYLENEBISPHENOL (3 ISOMERS) 3 UNIDENTIFIED COMPOUNDS 6000JN 3000J

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD PROG ELEM: NST CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1630 STOP: 00/00/00 MD NO: CL62 * * SOURCE: SIMMONS CASKET CO ** STATION ID: SS-03 CASE.NO.: 17847 ** SAS NO.: ** ** * * * *

ANALYTICAL RESULTS UG/KG

400JN HYDROXYBENZALDEHYDE (2 ISOMERS) 2000JN METHYLENEBISPHENOL (2 ISOMERS)

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD

SOURCE: SIMMONS CASKET CO CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1705 STOP: 00/00/00 D. NO.: CL63 MD NO: CL63 STATION ID: SS-04 ** CASE.NO.: 17847 SAS NO.:

** ** ** **

ANALYTICAL RESULTS UG/KG

1000JN HYDROXYBENZALDEHYDE (2 ISOMERS) HYDROXYBENZENEMETHANOL HYDROXYBENZENEACETIC ACID 200JN 90JN 10000JN METHYLENEBISPHENOL (2 ISOMERS)

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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04/13/92

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

* *** PROJECT NO. 92-0331 SAMPLE NO. 65470 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD * * SOURCE: SIMMONS CASKET CO STATION ID: SS-05 CASE.NO.: 17847 CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1755 STOP: 00/00/00

D. NO: CL64 MD NO: CL64 * * * * SAS NO.: * * * * ** * *

ANALYTICAL RESULTS UG/KG

PHTHALIC ANHYDRIDE 80JN BIS(DIMETHYLETHYL)CYCLOHEXADIENEDIONE 300JN

REMARKS EXCESSIVE HOLDING TIME ***REMARKS***

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

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MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ST: KY

SOURCE: SIMMONS CASKET CO STATION ID: SS-06 COLLECTION START: 02/26/92 1820 STOP: 00/00/00 ** CASE NO.: 17847 MD NO: CL65 SAS NO.: D. NO.: CL65 **

* *

ANALYTICAL RESULTS UG/KG

2000JN BIS(DIMETHYLETHYL)CYCLOHEXADIENEDIONE 20000J 12 UNIDENTIFIED COMPOUNDS PETROLEUM PRODUCT

REMARKS EXCESSIVE HOLDING TIME

**

REMARKS

FOOTNOTES *A-AVERAGE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613

APR 2 1 1992

WPB/SAS

*****MEMORANDUM*****

DATE: 04/14/92

SUBJECT: Results of Purgeable Organic Analysis;

92-0331 SIMMONS CASKET CO

LANCASTER KY CASE NO: 17847

FROM: Robert W. Knight

Chief, Laboratory Evaluation/Quality Assurance Section

TO: JOE SLYKERMAN

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

CC:

ORGANIC DATA QUALIFIER REPORT

Case Number 17847 Project Number 92-0331 SAS Number Site ID. Simmons Casket Co., Lancaster, KY.

| Affected Samples | Compound or Fraction | Flag <u>Used</u> | Reason |
|----------------------------------|----------------------|---------------------|-----------------------------------|
| <u>Volatiles</u> none | | | |
| Extractables all samples | all extractables | J | excessive extraction holding time |
| <u>Pesticides</u> all samples | aldrin | J | low GPC recovery |

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PURGEABLE ORGANICS DATA REPORT
PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 0940 STOP: 00/00/00
    PROJECT NO. 92-0331 SAMPLE NO. 65462 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-01
                                                                                                                        **
                                                                                                                        **
**
                                                                                                                        **
                                                                                                                        **
* *
    CASE NO.: 17847
                                           SAS NO.:
                                                                  D. NO.: CL56
                                                                                                                        **
**
UG/KG
                      ANALYTICAL RESULTS
                                                                UG/KG
                                                                                   ANALYTICAL RESULTS
                                                                  14U 1.2-DICHLOROPROPANE
14U CIS-1.3-DICHLOROPROPENE
    14U CHLOROMETHANE
        BROMOMETHANE
    14U
    14U VINYL CHLORIDE
                                                                  14U TRICHLOROETHENE (TRICHLOROETHYLENE)
    14U CHLOROETHANE
                                                                  14U DIBROMOCHLOROMETHANE
    300 METHYLENE CHLORIDE
                                                                  14U 1.1.2-TRICHLOROETHANE
                                                                  14U BÉNZENE
        ACETONE
        CARBON DISULFIDE
                                                                  14U TRANS-1.3-DICHLOROPROPENE
    140
        1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
1,1-DICHLOROETHANE
                                                                      BROMOFORM
    140
                                                                  14U
                                                                  14U METHYL ISOBUTYL KETONE
14U METHYL BUTYL KETONE
    14U
        1,2-DICHLOROETHENE (TOTAL)
    1411
                                                                      TETRACHLOROETHENE (TETRACHLOROETHYLENE)
    14U
        CHLOROFORM
    140
        1,2-DICHLOROETHANE
                                                                  14U 1,1,2,2-TETRACHLOROETHANE
    140
        METHYL ETHYL KETONE
                                                                  14U TÓLÚENE
        1,1,1-TRICHLOROETHANE
                                                                  140 CHLOROBENZENE
140 ETHYL BENZENE
    1411
        CARBON TETRACHLORIDE
    140
        BROMODICHLOROMETHANE
                                                                  14U STYRENE
                                                                  140 TOTAL XYLENES
                                                                   26 PERCENT MOISTURE
```

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI~INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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PURGEABLE ORGANICS DATA REPORT
PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
    PROJECT NO. 92-0331 SAMPLE NO. 65463 SAMPLE TYPE: SOIL
    SOURCE: SIMMONS CASKET CO
STATION ID: SD-01
                                                               CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1130 STOP: 00/00/00
**
                                                                                                                    **
                                                                                                                    * *
* *
* *
                                                                                                                    **
    CASE NO.: 17847
                                          SAS NO.:
                                                                D. NO.: CL57
                                                                                                                    **
UG/KG
                     ANALYTICAL RESULTS
                                                              UG/KG
                                                                                ANALYTICAL RESULTS
                                                                20U 1,2-DICHLOROPROPANE
20U CIS-1,3-DICHLOROPROPENE
    20U CHLOROMETHANE
    200 BROMOMETHANE
                                                                200 TRICHLOROETHENE (TRICHLOROETHYLENE)
    200 VINYL CHLORIDE
    200 CHLOROETHANE
                                                                200 DIBROMOCHLOROMETHANE
    40U METHYLENE CHLORIDE
                                                                20U 1.1.2-TRICHLOROETHANE
                                                                20U
                                                                    BÉNZENE
    200 ACETONE
        CARBON DISULFIDE
1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
                                                                    TRANS-1,3-DICHLOROPROPENE
    20U
                                                                20U
                                                                20Ŭ
                                                                    BROMOFORM
    200
    20Ŭ
         1.1-DICHLOROETHANE
                                                                20Ŭ
                                                                    METHYL ISOBUTYL KETONE
                                                                    METHYL BUTYL KETONE
TETRACHLOROETHENE(TETRACHLOROETHYLENE)
    200
         1,2-DICHLOROETHENE (TOTAL)
                                                                200
        CHLOROFORM
    200
                                                                20U
    20Ŭ
         1,2-DICHLOROETHANE
                                                                    1,1,2,2-TETRACHLOROETHANE
                                                                20U
        METHYL ETHYL KETONE
1,1,1-TRICHLOROETHANE
    200
                                                                20U
                                                                    TOLUENE
    200
                                                                20U
                                                                    CHLOROBENZENE
    20U
         CARBON TETRACHLORIDE
                                                                20U
                                                                    ETHYL BENZENE
        BROMODICHLOROMETHANE
                                                                200 STYRENE
                                                                200 TOTAL XYLENES
                                                                    PERCENT MOISTURE
```

REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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PURGEABLE ORGANICS DATA REPORT
PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
    PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL
                                                                                                                     **
                                                               CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1300 STOP: 00/00/00
    SOURCE: SIMMONS CASKET CO
. .
                                                                                                                     * *
* *
    STATION ID: SD-02
                                                                                                                     * *
* *
                                                                                                                     **
    CASE NO.: 17847
                                          SAS NO.:
                                                                D. NO.: CL58
--
                                                                                                                     **
   ***
   UG/KG
                     ANALYTICAL RESULTS
                                                              UG/KG
                                                                                ANALYTICAL RESULTS
                                                                15U 1.2-DICHLOROPROPANE
15U CIS-1.3-DICHLOROPROPENE
    150 CHLOROMETHANE
        BROMOMETHANE
    150
                                                                15U TRICHLOROETHENE (TRICHLOROETHYLENE)
    15U VINYL CHLORIDE
                                                                    DIBROMOCHLOROMETHANE
1,1,2-TRICHLOROETHANE
        CHLOROFTHANE
    150
                                                                150
                                                                15Ŭ
        METHYLENE CHLORIDE
    40Ŭ
                                                                150 BÉNZENE
    150
        ACETONE
        CARBON DISHLETDE
                                                                    TRANS-1.3-DICHLOROPROPENE
    150
                                                                150
    15U
        1.1-DICHLOROETHENE(1.1-DICHLOROETHYLENE)
                                                                150
                                                                    BROMOFORM
        1,1-DICHLOROETHANE
                                                                150
                                                                    METHYL ISOBUTYL KETONE
    150
                                                                    METHYL BUTYL KETONE
TETRACHLOROETHENE(TETRACHLOROETHYLENE)
         1.2-DICHLOROETHENE (TOTAL)
    150
                                                                15U
        CHLOROFORM
    150
                                                                150
         1.2-DICHLOROETHANE
                                                                150
                                                                    1,1,2,2-TETRACHLOROETHANE
    150
        METHYL ETHYL KETONE
                                                                    TÓLÚĒŃĒ
    150
                                                                150
        1.1.1-TRICHLOROFTHANE
                                                                1511
                                                                    CHLOROBENZENE
    150
    15U CARBON TETRACHLORIDE
                                                                15U ETHYL BENZENE
        BROMODICHLOROMETHANE
                                                                150 STYRENE
                                                                    TOTAL XYLENES
PERCENT MOISTURE
                                                                150
```

REMARKS

^{*}NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE *NA-NOT ANALYZED *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

```
PURGEABLE ORGANICS DATA REPORT
PROJECT NO. 92-0331 SAMPLE NO. 65465 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
    SOURCE: SIMMONS CASKET CO
STATION ID: SD-03
                                                             CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1340 STOP: 00/00/00
                                                                                                                 **
**
**
                                                                                                                 **
                                                                                                                 **
                                         SAS NO.:
* *
    CASE NO.: 17847
                                                              D. NO.: CL59
                                                                                                                 **
UG/KG
                    ANALYTICAL RESULTS
                                                            UG/KG
                                                                              ANALYTICAL RESULTS
    13U CHLOROMETHANE
                                                              13U 1,2-DICHLOROPROPANE
        BROMOMETHANE
                                                              13U CIS-1, 3-DICHLOROPROPENE
    130
    13U VINYL CHLORIDE
                                                              13U TRICHLOROETHENE (TRICHLOROETHYLENE)
                                                              13U DIBROMOCHLOROMETHANE
    13U CHLOROETHANE
                                                              13U 1,1,2-TRICHLOROETHANE
13U BENZENE
13U TRANS-1,3-DICHLOROPROPENE
    300 METHYLENE CHLORIDE
    130
        ACETONE
        CARBON DISULFIDE
    130
        1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
                                                              13U BROMOFORM
    130
    13U 1,1-DICHLOROETHANE
                                                              13U METHYL ISOBUTYL KETONE
        1,2-DICHLOROETHENE (TOTAL)
                                                              13U METHYL BUTYL KETONE
    130
                                                              13U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
        CHLOROFORM
    130
                                                              13U 1,1,2,2-TETRACHLOROETHANE
13U TOLUENE
    130
        1,2-DICHLOROETHANE
        METHYL ETHYL KETONE
1,1,1-TRICHLOROETHANE
    130
                                                              130
                                                                  CHLOROBENZENE
    130
                                                              130 ETHYL BENZENE
    130
        CARBON TETRACHLORIDE
        BROMODICHLOROMETHANE
                                                              13U STYRENE
                                                              130 TOTAL XYLENES
                                                               22 PERCENT MOISTURE
```

REMARKS

^{*}NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERÄGE VALUE *NA-NOT ANALYZED *A-AVERAGE VALUE IS ANALYZED THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE THAN VALUE GIVEN

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

```
PURGEABLE ORGANICS DATA REPORT
** PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
                                                                                                              **
    SOURCE: SIMMONS CASKET CO
STATION ID: SD-04
                                                            CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1450 STOP: 00/00/00
                                                                                                              **
                                                                                                              **
                                                                                                              * *
* *
    CASE NO.: 17847
                                        SAS NO.:
                                                            D. NO.: CL60
**
                                                                                                              **
UG/KG
                                                           UG/KG
                    ANALYTICAL RESULTS
                                                                           ANALYTICAL RESULTS
    17U CHLOROMETHANE
                                                             17U 1,2-DICHLOROPROPANE
    17U BROMOMETHANE
                                                             17U CIS-1,3-DICHLOROPROPENE
                                                             17U TRICHLOROETHENE (TRICHLOROETHYLENE)
    17U VINYL CHLORIDE
    17U CHLOROETHANE
                                                             170 DIBROMOCHLOROMETHANE
    300 METHYLENE CHLORIDE
                                                             17U 1.1.2-TRICHLOROETHANE
17U BENZENE
    1 7 U
        ACETONE
                                                                TRANS-1, 3-DICHLOROPROPENE
    170
        CARBON DISULFIDE
                                                             17U
                                                             17U BROMOFORM
        1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
    170
        1,1-DICHLOROETHANE
                                                             17U METHYL ISOBUTYL KETONE
    17U
                                                             170 METHYL BUTYL KETONE
        1.2-DICHLOROETHENE (TOTAL)
    17U
        CHLOROFORM
                                                             17Ŭ
                                                                TETRACHLOROETHENE (TETRACHLOROETHYLENE)
    17U
        1.2-DICHLOROETHANE
METHYL ETHYL KETONE
                                                                1,1,2,2-TETRACHLOROETHANE
TOLUENE
    170
                                                             170
                                                             170
    170
        1,1,1-TRICHLOROETHANE
    170
                                                             170
                                                                 CHLOROBENZENE
        CARBON TETRACHLORIDE
                                                             170 ETHYL BENZENE
    17U
                                                             17U STYRĒNĒ
        BROMODICHLOROMETHANE
                                                             17U TOTAL XYLENES
                                                             40 PERCENT MOISTURE
```

REMARKS

^{*}NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE

^{*}A-AVERAGE VALUE IS *AA-NOT ANALYZED *AAI-THIERERENCES **B-ESTIMATED VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

```
PURGEABLE ORGANICS DATA REPORT
PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-02
                                                           PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
                                                                                                              **
                                                           COLLECTION START: 02/26/92 1525 STOP: 00/00/00
                                                                                                              **
                                                                                                              **
**
   CASE NO.: 17847
                                        SAS NO.:
                                                            D. NO.: CL61
                                                                                                              **
UG/KG
   UG/KG
                    ANALYTICAL RESULTS
                                                                           ANALYTICAL RESULTS
                                                            150 1,2-DICHLOROPROPANE
    15U CHLOROMETHANE
    15U BROMOMETHANE
                                                            15U CIS-1.3-DICHLOROPROPENE
                                                            15U TRICHLOROETHENE (TRICHLOROETHYLENE)
    15U VINYL CHLORIDE
        CHLOROETHANE
                                                            15U DIBROMOCHLOROMETHANE
    15U
    20Ŭ
        METHYLENE CHLORIDE
                                                            150
                                                                 1.1.2-TRICHLOROETHANE
                                                            150
                                                                 BÉNZENE
    150
        ACETONE
        CARBON DISULFIDE
                                                                 TRANS-1,3-DICHLOROPROPENE
    15Ú
                                                            15U
        1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
                                                            15Ü
                                                                 BROMOFORM
    15U
                                                                 METHYL ISOBUTYL KETONE
        1.1-DICHLOROETHANE
    150
                                                            150
                                                                 METHYL BUTYL KETONE
TETRACHLOROETHENE (TETRACHLOROETHYLENE)
        1.2-DICHLOROETHENE (TOTAL)
                                                            150
    150
    150
        CHLOROFORM
                                                            150
        1,2-DICHLOROETHANE
                                                                 1,1,2,2-TETRACHLOROETHANE TOLUENE
    15U
                                                             150
        MÉTHYL ETHYL KETONE
    150
                                                            15U
                                                                 CHLOROBENZENE
        1.1.1-TRICHLOROETHANE
                                                            15Ŭ
    15Ū
        CARBON TETRACHLORIDE
                                                            150
                                                                 ETHYL BENZENE
    150
        BROMODICHLOROMETHANE
                                                                 STYRENE
                                                            15U
                                                                 TOTAL XYLENES
                                                            150
                                                             32 PERCENT MOISTURE
```

REMARKS

^{*}Ă-ĂVĒRĀGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

^{*}K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

```
PURGEABLE ORGANICS DATA REPORT
PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1630 STOP: 00/00/00
    PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL
                                                                                                                        **
    SOURCE: SIMMONS CASKET CO
STATION ID: SS-03
                                                                                                                        **
                                                                                                                        **
**
**
                                                                                                                        * *
    CASE NO.: 17847
                                            SAS NO.:
                                                                  D. NO.: CL62
                                                                                                                        **
UG/KG
                      ANALYTICAL RESULTS
                                                                UG/KG
                                                                                  ANALYTICAL RESULTS
                                                                  13U 1,2-DICHLOROPROPANE
13U CIS-1,3-DICHLOROPROPENE
13U TRICHLOROETHENE(TRICHLOROETHYLENE)
     13U CHLOROMETHANE
    130
        BROMOMETHANE
     13U VINYL CHLORIDE
     13U CHLOROETHANE
                                                                  13U DIBROMOCHLOROMETHANE
                                                                  13U 1,1,2-TRICHLOROETHANE
    30U METHYLENE CHLORIDE
                                                                  130 BÉNZENE
         ACETONE
        CARBON DISULFIDE
1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
                                                                  13U TRANS-1,3-DICHLOROPROPENE
13U BROMOFORM
     130
     130
        1,1-DICHLOROETHANE
                                                                      METHYL ISOBUTYL KETONE
     130
                                                                  130
        1,2-DICHLOROETHENE (TOTAL)
                                                                  130
                                                                      METHYL BUTYL KETONE
     130
                                                                      TETRACHLOROETHENE (TETRACHLOROETHYLENE)
     130 CHLOROFORM
         1,2-DICHLOROETHANE
                                                                      1,1,2,2-TETRACHLOROETHANE
    130
                                                                  130
    130
        MÉTHYL ETHYL KETONE
1,1,1-TRICHLOROETHANE
                                                                  130
                                                                      TOLUENE
     130
                                                                  13U
                                                                      CHLOROBENZENE
     13U CARBON TETRACHLORIDE
                                                                  130 ETHYL BENZENE
        BROMODICHLOROMETHANE
                                                                  13U STYRENE
                                                                  13U TOTAL XYLENES
25 PERCENT MOISTURE
```

REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| PHR | GEABLE ORGANICS DATA REPORT | IV ESD, ATHENS, GA. | 04/13/92 |
|--------------|--|--|---|
| *** ** ** ** | PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-04 | CITY: LANCASTER ST: KY | |
| ** | CASE NO.: 17847 SAS NO.: #################################### | D. NO.: CL63 * * * * * * * * * * * * * * * * * * * | * |
| | 13U CHLOROMETHANE 13U BROMOMETHANE 13U VINYL CHLORIDE 13U CHLOROETHANE 70U METHYLENE CHLORIDE 13U ACETONE 13U CARBON DISULFIDE 13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 13U 1,1-DICHLOROETHANE 13U 1,2-DICHLOROETHANE 13U CHLOROFORM 13U CHLOROFORM 13U 1,2-DICHLOROETHANE 13U METHYL ETHYL KETONE 13U 1,1-TRICHLOROETHANE 13U CARBON TETRACHLORIDE 13U BROMODICHLOROMETHANE | 13U 1,2-DICHLOROPROPANE 13U CIS-1,3-DICHLOROPROPENE 13U TRICHLOROETHENE(TRICHLOROETHYLENE) 13U DIBROMOCHLOROMETHANE 13U 1,1,2-TRICHLOROETHANE 13U BÉNZENE 13U TRANS-1,3-DICHLOROPROPENE 13U BROMOFORM 13U METHYL ISOBUTYL KETONE 13U METHYL BUTYL KETONE 13U TETRACHLOROETHENE(TETRACHLOROETHYLE 13U 1,1,2,2-TETRACHLOROETHANE 13U TOLUENE 13U CHLOROBENZENE 13U CHLOROBENZENE 13U STYRENE 13U STYRENE 13U TOTAL XYLENES 23 PERCENT MOISTURE | ENE) |

REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| PURGEABLE | ORGANICS DATA | REPORT | | 0100 11 250, ATT | 210, 41. | | 0-7,10,3 <u>2</u> |
|---|--|--|---|-------------------------|---|--|---------------------------|
| ** PROJ ** SOUR | ECT NO. 92-0331 CE: SIMMONS CAS ION ID: SS-05 | SAMPLE NO. 69 | * * * * * * * * * * * 470 SAMPLE TYPE: S | SOIL PROG | ELEM: NSF COLL : LANCASTER | LECTED BY: B STAFFOR ST: KY /26/92 1755 STOP: | D ** |
| | NO.: 17847 | | SAS NO.: | D. | NO.: CL64 | | ** |
| *** * * * UG/KG | * * * * * * * | ANALYTICAL RESUL | | * * * * * * * * * UG/KG | | NALYTICAL RESULTS | * * * * * * * * * * * *** |
| 130 130 130 700 130 130 130 | CHLOROMETHANE BROMOMETHANE VINYL CHLORIDE CHLOROETHANE METHYLENE CHLO ACETONE CARBON DISULFI 1,1-DICHLOROET 1,2-DICHLOROET 1,2-DICHLOROET CHLOROFORM 1,2-DICHLOROET METHYL ETHYL K 1,1,1-TRICHLOR BROMODICHLOROM | RIDE DE HENE(1,1-DICHLOF HANE HENE (TOTAL) HANE ETONE OETHANE LORIDE | OETHYLENE) | | DIBROMOCHLOROME 1,1,2-TRICHLORO BENZENE TRANS-1,3-DICHL BROMOFORM METHYL ISOBUTYL METHYL BUTYL KE | ROPROPENE E (TRICHLOROETHYLENE) ETHANE DETHANE LOROPROPENE L KETONE ETONE ENE (TETRACHLOROETHYLENE) LOROETHANE | ENE) |

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

```
PURGEABLE ORGANICS DATA REPORT
PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY
                                                                                                               **
   SOURCE: SIMMONS CASKET CO
STATION ID: SS-06
                                                            CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1820 STOP: 00/00/00
                                                                                                               **
**
                                                                                                               * *
                                                                                                               **
* *
   CASE NO.: 17847
                                        SAS NO.:
                                                             D. NO.: CL65
**
                                                                                                               **
UG/KG
                    ANALYTICAL RESULTS
                                                           UG/KG
                                                                            ANALYTICAL RESULTS
                                                             11U 1,2-DICHLOROPROPANE
11U CIS-1,3-DICHLOROPROPENE
    11U CHLOROMETHANE
        BROMOMETHANE
    110
        VINYL CHLORIDE
                                                             11U TRICHLOROETHENE (TRICHLOROETHYLENE)
    110
    11U CHLOROETHANE
                                                                 DIBROMOCHLOROMETHANE
                                                             110
    40U METHYLENE CHLORIDE
                                                             11U 1.1.2-TRICHLOROETHANE
                                                             11U BÉNZENE
    40U ACETONE
    11U CARBON DISULFIDE
                                                             110
                                                                 TRANS-1,3-DICHLOROPROPENE
        1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
1,1-DICHLOROETHANE
                                                                 BROMOFORM
    110
                                                             110
                                                                 METHYL ISOBUTYL KETONE
    110
                                                             110
        1,2-DICHLOROETHENE (TOTAL)
                                                             11U METHYL BUTYL KETONE
    110
                                                                 TETRACHLOROETHENE (TETRACHLOROETHYLENE)
    110
        CHLOROFORM
                                                             11U
                                                             11U 1,1,2,2-TETRACHLOROETHANE
    110
        1,2-DICHLOROETHANE
                                                             110
       METHYL ETHYL KETONE
                                                                 TÓLÚENE
    110
    110
       1,1,1-TRICHLOROETHANE
                                                             110
                                                                 CHLOROBENZENE
        CARBON TETRACHLORIDE
                                                             11U ETHYL BENZENE
    110
        BROMODICHLOROMETHANE
                                                             110
                                                                 STYRENE
    110
                                                             11U TOTAL XYLENES
                                                             12 PERCENT MOISTURE
```

REMARK5

REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

04/13/92

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD * * SOURCE: SIMMONS CASKET CO STATION ID: SS-06 CITY: LANCASTER ST: KY ** ** COLLECTION START: 02/26/92 1820 STOP D. NO.: CL65 MD NO: CL65 STOP: 00/00/00 * * ** CASE.NO.: 17847 SAS NO.: ** ** * * **

ANALYTICAL RESULTS UG/KG

7JN DIMETHYLCYCLOHEXANE 8JN DIMETHYLHEPTANE 40JN UNDECANE DIMETHYLOCTANE 30JN **50JN** DIMETHYLOCTADECANE 100J 5 UNIDENTIFIED COMPOUNDS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| SITE SIMMONS CASK PROJECT # 92-0331 | | (SI) | S | STATE KY | | | OE SLYKERMAN 02/24/92 | (B&V) |
|--|------|------|-----------|----------|-----|-----|--------------------------|-------|
| SOILVOA BOOKED | 11 | DATA | RECEIVED | 04/21/92 | FOR | 10 | SAMPLES | |
| H2OVOA BOOKED | 5 | DATA | RECEIVED | / / | FOR | 0 | SAMPLES | |
| SOILEXT BOOKED | 11 | DATA | RECEIVED | 04/21/92 | FOR | 1.0 | SAMPLES | |
| H2OEXT BOOKED | 5 | DATA | RECEIVED | / / | FOR | 0 | SAMPLES | |
| SOILPEST BOOKED | 1.1 | DATA | RECEIVED | 04/21/92 | FOR | 10 | SAMPLES | |
| H2OPEST BOOKED | 5 | DATA | RECEIVED | 1 1 | FOR | 0 | SAMPLES | |
| SOILMET BOOKED | 11 | DATA | RECEIVED | 04/09/92 | FOR | 11 | SAMPLES | |
| H20MET BOOKED | 5 | DATA | RECEIVED | / / | FOR | 0 | SAMPLES | |
| SOILCN BOOKED | 1 1 | DATA | RECEIVED | 04/09/92 | FOR | 11 | SAMPLES | |
| H20CN BOOKED | 5 | DATA | RECEIVED | 1 1 | FOR | 0 | SAMPLES | |
| | | | | | | | | |
| SOILOTH1 BOOKED | 0 | DATE | RECEIVED | , , | EOD | 0 | SAMPLES | |
| SUILUIRI BUUKED | U | DATA | VE/ UIAUN | 1 1 | run | U | SAMPLES | |
| SOILOTH2 BOOKED | 0 | DATA | RECEIVED | / / | FOR | 0 | SAMPLES | |
| H2OOTH1 BOOKED | 0 | DATA | RECEIVED | 1 1 | FOR | 0 | SAMPLES | |
| H2OOTH2 BOOKED | 0 | DATA | RECEIVED | 7 7 | FOR | 0 | SAMPLES | |
| OTHER1 BOOKED | 0 | DATA | RECEIVED | 1 1 | FOR | 0 | SAMPLES | |
| OTHER2 BOOKED | 0 | DATA | RECEIVED | / / | FOR | 0 | SAMPLES | |
| LAB(CLP/ESD/FASP/ | QTM) | CLP | | | | | | |

REMARKS BOOKED BY ASB IN SAMPLE CONTROL COORDINATOR'S ABSENCE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region IV Environmental Services Division

Environmental Services Division College Station Road, Athens, Ga. 30613

WPB/SAS

EPA - REGION IV ATLANTA, GA

****MEMORANDUM*****

DATE: 04/14/92

SUBJECT: Results of Pesticide/PCB Analysis;

92-0331 SIMMONS CASKET CO

LANCASTER KY CASE NO: 17847

FROM: Robert W. Knight

Chief, Laboratory Evaluation/Quality Assurance Section

TO: JOE SLYKERMAN

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

CC:

ORGANIC DATA QUALIFIER REPORT

Case Number 17847 Project Number 92-0331 SAS Number Site ID. Simmons Casket Co., Lancaster, KY.

| Affected Samples | Compound or Fraction | Flag <u>Used</u> | Reason |
|---------------------------|----------------------|---------------------|-----------------------------------|
| <u>Volatiles</u> none | | | |
| Extractables all samples | all extractables | J | excessive extraction holding time |
| Pesticides all samples | aldrin | J | low GPC recovery |

04/13/92

| | | _ | | ш. | _ | | 7-4 | |
|-----------------------------------|---|-----------------|--------------|---------|---|--------|------------------------------|---|
| | * | * | ¥ | * | * | ** | PESTICIDES/PCB'S DATA REPORT | |
| | | CAS | STA | S | PRO | * | ICID | |
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| 2.3U ALPHA-BHC 2.3U BETA-BHC 2.3U DELTA-BHC (LINDANE) 2.3U GAMMA-BHC (LINDANE) 2.3U HEPTACHLOR EPOXIDE 2.3U HEDTACHLOR EPOXIDE 2.3U HEDTACHLOR EPOXIDE 2.3U HEDRIN 4.5U A.4'-DDE (P.P'-DDE) 4.5U A.4'-DDE (P.P'-DDE) 4.5U ENDOSULFAN II (BETA) 4.5U A.4'-DDD (P,P'-DDD) 4.5U ENDOSULFAN SULFATE 4.5U 4.4'-DDT (P,P'-DDT) | UG/KG ANALYTICAL RESULTS |
|---|---|
| 23U MÉTHOXYCHLOR 4.5U ENDRIN KETONE 4.5U ENDRIN KETONE 4.5U ENDRIN ALEHYDE 4.5U ENDRIN ALEHYDE 2.3U GAMMA-CHLORDANE /2 2.3U ALPHA-CHLORDANE /2 2.3U TOXAPHENE /2 2.3U TOXAPHENE /2 2.3U PCB-1221 (AROCLOR 1232) 45U PCB-1222 (AROCLOR 1232) 45U PCB-1242 (AROCLOR 1232) 45U PCB-1242 (AROCLOR 1242) 45U PCB-1254 (AROCLOR 1254) 45U PCB-1254 (AROCLOR 1254) 45U PCB-1260 (AROCLOR 1254) 45U PCB-1260 (AROCLOR 1260) 26 PERCENT MOISTURE | # * * * * * * * * * * * * * * * * * * * |

REMARKS

****FOOTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NEC

*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. NECESSARY FOR VERIFICATION OF PRESENCE GIVEN

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| | PESTICIDES/PCB'S DATA REPORT ** | * 3 * | ကက်ကက်ကြိုက်က်ထိုယ်ထိုယ်ထိုယ် က |
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FOOTNOTES

*A—AVERAGE VALUE *NA—NOT ANALYZED *NAI—INTERFERENCES *J—ESTIMATED VALUE *N—PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*A—AVERAGE VALUE SKNOWN TO BE LESS THAN VALUE GIVEN *L—ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*K—ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L—ACTUAL VALUE IS NECESSARY FOR BUT NOT DETECTED. THE NUMBER IS THE NINIMUM DUANTITATION LIMIT.

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*R—GC INDICATES THAT DATA UNUSABLE. COMPOUND MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

*C—CONFIRMED BY GCMS

REMARKS

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| 4.9U ENDRIN KETONE | 2.5U ALPHA-BHC 2.5U BETA-BHC |
| SULTS ANALYTICAL RESULTS | UG/KG ANALYTICAL RESULTS |
| | • • • |
| COLLECT | ION ID: SD-02 |
| 65464 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD | SAMPLE NO. |
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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF *A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *R-ACTUAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERI**

*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. IS NECESSARY FOR VERIFICATION MATERIAL

| EPA-REGION IV ESD, ATHENS, GA. | ** PROJECT NO. 92-0331 SAMPLE NO. 65465 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD ** SOURCE: SIMMONS CASKET CO | COLLECTION STAR. D. NUMBER: CLS | * * * * * * * * * * * * * * * * * * * | ALPHA-BHC 20U METHOXYCHLOR BETA-BHC 4.10 ENDRIN KETONE A.10 ENDRIN ALDEHYDE | 25.00 | 2.00 ALPHA-CHLOKDANE 2000 TOXAPHENE 411 PCB-1016 (AROCLO | 82U PCB-1221 (AROCLOR 1 | 410 PCB-1242 410 PCB-1254 (| 22 PERCENT MOISTURE |
|--------------------------------|--|---------------------------------|---------------------------------------|---|---------------------------|--|-------------------------|--------------------------------|---------------------|
| STICIDES/PCB" | PROJECT NO SOURCE: SIN | STATION ID CASE NUMBEL | *** * * * * * * * * * * * * * * * * * | 2.00 ALPHA-2.00 BETA-E | 2.00 GANNA 2.00 HEPTA(| 2.0UJ ALDRIJ 2.0U HEPTA(| | 4.10 ENDRIN | |
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REMARKS

FOOTWOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
**A-ACTUAL VALUE IS KNOWN TO BE FOOT BOT DETECTED. THE WINIMUM QUANTITATION LIMIT.
*B-MALYZED FOR BUT NOT DETECTED. THE WINIMUM QUANTITATION LIMIT.
*R-QC INDICALES THAT DATA UNUSABLE. COMPOUND MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS

REMARKS

| 1 | - | U, AIMENS, GA. |
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| *** | * * * * * * * * * * * * * * * * * * * | **** |
| * * | PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO | PROG ELEM: NSF COLLECTED BY: B STAFFORD *** CITY: LANCASTER ST: KY *** |
| * * | N ID: SD-04 NUMBER: 17847 | L A R |
| * * | .************************************* | # # # # # # # # # # # # # # # # # # # |
| | ALPHA-BHC BETA-BHC DELTA-BHC | 27U METHOXYCHLOR 5.5U ENDRIN KETONE 5.5U ENDRIN ALDEHYDE |
| | GAMMA-BHC (L HEPTACHLOR ALDRIN | 2.7U GAMMA-CHLORDANE /2 2.7U ALPHA-CHLORDANE /2 2.7U ALPHA-CHLORDANE /2 |
| | 2.7U HEPTACHLOX EPUXIDE 2.7U ENDOSULFAN I (ALPHA) 5 51 DIFFINRIN | PCB-1221 (AROCLOR |
| | 5.5U 4.4'-DDE (P.P'-DDE) 5.5U ENDRIN | PCB-1232 (AROCLOR PCB-1242 (AROCLOR |
| | 5.50 ENDOSULFAN II (BETA) 5.50 4.4'-DDD (P.P'-DDD) 5.50 ENDOSULFAN SULFATE | 550 PCB-1248 (AROCLOR 1248) 550 PCB-1254 (AROCLOR 1254) 550 PCB-1260 (AROCLOR 1260) |
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REMARKS

FOOTNOTES

**A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *K-ACTUAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

*C-CONFIRMED BY GCMS

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PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1525 STOP: 00/00/00
    PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL
                                                                                                                      **
    SOURCE: SIMMONS CASKET CO
                                                                                                                      * *
    STATION ID: SS-02
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* *
                             SAS NUMBER:
    CASE NUMBER: 17847
                                                                D. NUMBER: CL61
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UG/KG
   UG/KG
                     ANALYTICAL RESULTS
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   120U ALPHA-BHC
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   1200 BETA-BHC
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                                                                     ENDRIN KETONE
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   1200 GAMMA-BHC (LINDANE)
                                                                     CHLORDANE (TECH. MIXTURE) /1
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                                                               1200
                                                                    GAMMA-CHLORDANE
                                                                                    /2
                                                               1200
                                                                     ALPHA-CHLORDANE
   120UJ ALDRIN
                                                              120000
                                                                     TOXAPHENE
   120U HEPTACHLOR EPOXIDE
                                                                    PCB-1016 (AROCLOR 1016)
PCB-1221 (AROCLOR 1221)
   120U ENDOSULFAN I (ALPHA)
                                                               2400U
                                                               4800U
   240U DIELDRIN
                                                               2400U PCB-1232 (AROCLOR 1232)
2400U PCB-1242 (AROCLOR 1242)
   240U 4.4'-DDE (P.P'-DDE)
   240U ENDRIN
                                                               2400U PCB-1248 (AROCLOR 1248)
   240U ENDOSULFAN II (BETA)
   240U 4,4'-DDD (P,P'-DDD)
240U ENDOSULFAN SULFATE
                                                              24000 PCB-1254 (AROCLOR 1254)
24000 PCB-1260 (AROCLOR 1260)
   240U 4,4'-DDT (P,P'-DDT)
                                                                 32 PERCENT MOISTURE
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REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

| 04/13/92 | **** | * * * | |
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| EPA-REGION IV ESD, ATHENS, GA. | * * * * * * * * * * * * * * * * * * * | . * * * * * * * * * * * * * * * * * * * | 22U METHOXYCHLOR 4.4U ENDRIN KETONE CHURDANE (TECH. MIXTURE) /1 2.2U GAMMA-CHLORDANE /2 2.2U ALPHA-CHLORDANE /2 2.2U ALPHA-CHLORDANE /2 2.2U ALPHA-CHLORDANE /2 44U PCB-1221 (AROCLOR 1232) 44U PCB-1232 (AROCLOR 1232) 44U PCB-1242 (AROCLOR 1242) 44U PCB-1254 (AROCLOR 1248) 44U PCB-1254 (AROCLOR 1248) 44U PCB-1256 (AROCLOR 1254) 55 PERCENT MOISTURE |
| DESTICIDES /DCB.S DATA PEDORT | ** PROJECT NO. 92-0331 SAMPLE NO. 65468 ** SOURCE: SIMMONS CASKET CO ** STATION ID: SS-03 ** CASE NUMBER: 17847 SAS NUMBER: | *** * * * * * * * * * * * * * * * * * | 2.2U ALPHA-BHC 2.2U BETA-BHC 2.2U GAMMA-BHC 2.2U HEPTACHLOR 2.2U HEPTACHLOR 2.2U ALDRIN 2.2U HEPTACHLOR EPOXIDE 2.2U HEPTACHLOR EPOXIDE 4.4U J.4'-DDE OFFICE 4.4U ENDOSULFAN I (ALPHA) 4.4U ENDOSULFAN II (BETA) 4.4U ENDOSULFAN II (BETA) 4.4U ENDOSULFAN SULFATE 4.4U ENOOSULFAN SULFATE |

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE STVEN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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*C-CONFIRMED BY GCMS

REMARKS

FOOTNOTES

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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE

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*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. NECESSARY OF PRESENCE GIVEN FOR 읶 MATERIAL

| 2.10 ALPHA-BHC 2.10 BETA-BHC 2.10 DELTA-BHC 2.10 GAMMA-BHC (LINDANE) 2.10 HEPTACHLOR 2.10 ALDRIN 4.30 HEPTACHLOR EPOXIDE 4.30 4.4'-DDE (P,P'-DDE) 4.30 ENDOSULFAN I (ALPHA) 4.30 ENDOSULFAN II (BETA) 4.30 ENDOSULFAN SULFATE 4.30 4,4'-DDT (P,P'-DDT) | PESTICIDES/PCB'S DATA REPORT *** * * * * * * * * * * * * * * * * * |
|--|---|
| 21U METHOXYCHLOR 4.3U ENDRIN KETONE 4.3U ENDRIN KETONE 4.3U ENDRIN ALDEHYDE CHLORDANE (TECH. MIXTURE) /1 2.1U GAMMA-CHLORDANE /2 2.1U ALPHA-CHLORDANE /2 21OU TOXAPHENE 43U PCB-1231 (AROCLOR 121) 950 PCB-1232 (AROCLOR 1221) 43U PCB-1232 (AROCLOR 1232) 43U PCB-1248 (AROCLOR 1248) 43U PCB-1254 (AROCLOR 1254) 43U PCB-1256 (AROCLOR 1254) 43U PCB-1250 (AROCLOR 1254) 43U PCB-1250 (AROCLOR 1254) 43U PCB-1260 (AROCLOR 1254) | * * * * * * * * * * * * * * * * * * * |

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

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*C-CONFIRMED BY GCMS IS NECESSARY FOR VERIFICATION MATERIAL

PESTICIDES/PCB'S DATA REPORT

REMARKS

FOOTNOTES

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*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

NECESSARY FOR VERIFICATION

OF PRESENCE GIVEN

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

Region IV

Environmental Services Division

College Station Road, Athens, Ga. 3003 APR 0 9 1992

ENVIRONMENTAL PROTECTION AGENCY.

REGION IV

ENVIRONMENTAL PROTECTION AGENCY.

REGION IV

ATLANTA, GA

KYD050074889

****MEMORANDUM*****

DATE: 04/03/92

SUBJECT: Results of Metals Analysis;

92-0331 SIMMONS CASKET CO

LANCASTER KY CASE NO: 17847

FROM: Robert W. Knight

Chief, Laboratory Evaluation/Quality Assurance Section

TO: JOE SLYKERMAN

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

CC l

INORGANIC DATA QUALIFIERS REPORT

Case Number: 17847
Project Number: 92-0331
Site: Simmons Casket Co., Lancaster, KY

| ct Number: 92-03 Simmons Casket | Co Lan | caster, KY | |
|------------------------------------|----------|--------------------------|----------------------------------|
| Simmons Casket | <u> </u> | | Reason |
| | Flag | Samples Affected | Baseline Instability |
| Element Cr Fe | Ü | All positives > IDL, but | |
| Al, Cd, Cr, Fe | _ | < CRDL | . 1.1len |
| Mn, V, Zn | | | Positives in blanks |
| Ва | U | All positives > IDL, but | |
| Da | | < 10X contaminant level | Matrix spike recovery = 26.5% |
| | | 1 | Matrix spike recovery |
| Sb | J | All positives | |
| 30 | | All negatives | Matrix spike recovery = 60.9% |
| | | . 4.4 | Matrix spike 1000 |
| Cd | J | A11 | Matrix spike recovery = 669.1% |
| 0 a | | .11 aitives | Matrix spike root |
| Cu | J | All positives | Matrix spike recovery = 63.9% |
| . | | .11 | Matrix Spino 200 |
| Se | J | A11 | Matrix spike recovery - 58.7% |
| _ | _ | A11 | |
| Ag | J | HII | Matrix spike recovery $= 59.5\%$ |
| _ | J | A11 | |
| Zn | J | 1144 | Matrix duplicate RPD = 62.5% |
| _ | J | A11 | nn - 43.38 |
| Ca | 3 | - | Matrix duplicate RPD = 43.3% |
| 1 | J | A11 | nnn - 36.48 |
| Pb | Ŭ | | Matrix duplicate RPD = 36.4% |
| M = | J | A11 | 42.28 |
| Mg | · · | | Matrix duplicate RPD = 42.2% |
| Men | J | A11 | |
| Mn | | MDCI 63 | Duplicate MSA r <.995 |
| Pb | J | MDCL62 and MDCL63 | % RSD > 20% for ICP multiple |
| 10 | | a. (1 | % RSD > 20% 102 - |
| Cd | J | MDCL61 | exposures |
| 00 | | | % RSD > 20% for ICP multiple |
| | | WDCI 62 | & KOD / 200 - |
| Ве | J | MDCL63 | exposures |
| 20 | | | |

04/02/92

| METALE DATA DEDOCT | • | CEM REGION IN COD, MILL | E145, dr. | 0.,02,02 |
|---|---------|---------------------------------------|---------------------------------------|------------------------------------|
| METALS DATA REPORT *** * * * * * * * ** PROJECT NO. 9 ** SOURCE: SIMMO ** STATION ID: S ** CASE NUMBER: | | CITY | * * * * * * * * * * * * * * * * * * * | STAFFORD ** STOP: 00/00/00 ** ** |
| ### # # # # # # # # # # # # # # # # # | / JM | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | LTS |

REMARKS

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FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

| METALC DA | ATA REPORT | | | | | | | | | | ,, |
|--|---|------------------------|--------------------------------------|-------------------|----------------|---------|--|---|---|-------------|-----------------------------|
| ** | FACE NO. 92-033 RCE: SIMMONS CASTION ID: SD-01 RCE: NUMBER: 17847 | SKET CO | * * * * * NO. 65463 AS NUMBER: | * * * * SAMPLE | * * * TYPE: | * * * * | CITY | * * * * * * * ELEM: NSF COL : LANCASTER ECTION START: 02, NUMBER: CL57 | LECTED BY: B STAFFOR ST: KY /26/92 1130 STOP: | RD 00/00/00 | * * * *** ** ** ** |
| 12000 100R 9.6 79 1.1 1000 18000 18 16J 30000 38J 5500J | ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM CHROMIUM COBALT COPPER IRON LEAD MAGNESIUM | * * * * * * ANALYTICAL | * * * * * RESULTS | * * * * | * * * | * * * | * * * * * * MG/KG 1400J 0.14U 13 850 1.3UJ 1.6UJ 44 0.67U NA 28 55J 42 | MANGANESE MERCURY NICKEL POTASSIUM SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM ZINC PERCENT MOISTU | ALYTICAL RESULTS | * * * * * * | |

REMARKS

^{***}FOOTNOTES***

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04/02/92

| METALS DATA REPORT *** * * * * * * * * ** PROJECT NO. 92-0: ** SOURCE: SIMMONS: ** STATION ID: SD-0: ** CASE NUMBER: 178- ** | CASKET CO 2 | CITY: LANCASTER | * * * * * * * * * * * * * * * * * * * |
|--|---------------------------------------|---|---------------------------------------|
| *** * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | # * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * |

REMARKS

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04/02/92

| METALS DATA REPORT *** * * * * * * * ** PROJECT NO. 92-(** SOURCE: SIMMONS ** STATION ID: SD-(** CASE NUMBER: 176 ** | CASKET CO | CITY: COLLE | | * * * * * * * * * * * * * * * * * * * |
|--|---------------------------------------|--|---|---------------------------------------|
| ### # # # # # # # # # # # # # # # # # | * * * * * * * * * * * * * * * * * * * | MG/KG 2300J 0.11U 13 590 0.94UJ 1.2UJ 43 0.47U NA 46 370J | MANGANESE MERCURY NICKEL POTASSIUM SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM ZINC PERCENT MOISTURE | * * * * * * * * * * * * * * * * * * * |

REMARKS

^{***}FOOTNOTES***

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| METALS DATA REPORT | | | | 0 1, 02, 02 |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| *** * * * * * * * * * * * * * * * * * | ASKET CO | CITY | * * * * * * * * * * * * * * * * * * * | KY ** |
| ### # # # # # # # # # # # # # # # # # | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * |

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04/02/92 METALS DATA DEDORT

| | * * * * * * * * * D. 92-0331 SAMPI IMMONS CASKET CO D: SS-02 | * * * * * * * * * * * * * * * * * * * | CITY: COLLE | ELEM: NSF COLLECTED BY: B: LANCASTER ST: K' CCTION START: 02/26/92 1525 | |
|---|---|---------------------------------------|---------------------------------------|---|---------------------------------------|
| 1.5J CĀDM 12000J CALC 24 CHROO 13 COBA 150J COPP 39000 IRON 160J LEAD | INUM NONY VIC JM LLIUM IUM IUM AIUM T ER | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * | * * * * * * * * * * * * * * * * * * * |

REMARKS ***REMARKS***

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04/02/92

| METALS DATA REP | ORT | | | | | | · ·, · - , · - |
|--|-----------------------------------|---|---------------|-----------------|---|---------------------------------------|---|
| *** * * * * * * * * * * * * * * * * * | * * * * * * * * * | * * * * * * * * * * E NO. 65468 SAMPLE | | * * * * * | | * * * * * * * * * * * * * * * * * * * | * |
| | MMONS CASKET CO | E 140. 05-06 3AMI EE | 1172. 3012 | CITY: | LANCASTER | ST: KY | ** |
| ** STATION ID | : SS-03_ | C4C 1440CD | | COLLE | CTION START: 02/2 | 6/92 1630 STOP: 0 | 00/00/00 ** |
| ** CASE NUMBE | K: 1/84/ | SAS NUMBER: | | MU N | UMBER: CL62 | | ** |
| *** * * * * * * | * * * * * * * * * | | * * * * * * * | | * * * * * * * * * | | * |
| MG/KG 22000 ALUMI | | AL RESULTS | | MG/KG 1700J | MANGANESE ANAL' | YTICAL RESULTS | |
| 7.6UR ANTIM | | | | o. 130 | MERCURY | | |
| 20 ARSEN | IC | | | 18 | NICKEL | | |
| 160 BARIU | | | | 1500 4 911.1 | POTASSIUM SEI ENTIM | | |
| | | | | 1.20J | SILVER | | |
| 11000J CALCI | | | | 480 | | | |
| 19 CHRON | | | | | | | |
| 16J COPPE | | | | 31 | VANADIUM | | |
| 49000 IRON | | | | 73J | ZINC | | |
| | STUM | | | 25 | PERCENI MOISIURE | | |
| 1.1 BERYL 2UJ CADMI 11000J CALCI 19 CHROM 14 COBAL 16J COPPE | LIUM UM UM IUM T R | | | 4.9UJ 1.2UJ | SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM | | |

REMARKS

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| METALC DATA DEDORT | EPA-REGION IV ESD, ATHENS, GA. 04/02 | /92 |
|--|---|--------------|
| METALS DATA REPORT *** * * * * * * * * * * * * * * * * * | TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1705 STOP: 00/00/00 MD NUMBER: CL63 | *** ** ** ** |
| MG/KG ALUMINUM 7.8UR ANTIMONY 6.6 ARSENIC 100 BARIUM 0.55J BERYLLIUM 2UJ CADMIUM 150000J CALCIUM 20 CHROMIUM 7.2 COBALT 100J COPPER 15000 IRON 54J LEAD 27000J MAGNESIUM | MG/KG ANALYTICAL RESULTS 480J MANGANESE 0.11U MERCURY 11 NICKEL 1100 POTASSIUM 4.7UJ SELENIUM 1.3UJ SILVER 400 SODIUM 0.47U THALLIUM NA TIN 20U VANADIUM 110J ZINC 21 PERCENT MOISTURE | *** |

REMARKS

^{***}FOOTNOTES***

^{*}FOUINGLES***

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04/02/92

| METALS DA | TA DEDODT | | | | LIAN | EGION I | Y LUD, AI | HENS, GA. | | | | 04/02/32 |
|-----------------|----------------|-------------|-----------|---------|--------|---------|-----------|----------------|-------------|---------------|-------------|-----------|
| MEINES DA | IA REPORT | | | | | | | | | * * * * * * | | |
| ** PROJ | ECT NO TOO TOO | 1 SAMPLE N | 0 65470 | SAMPLE | TVDE . | יונס: | 000 | G ELEM: NSF | | BY: B STAFFOR | | ** |
| | | | 0. 654/0 | SAMPLE | ITPE: | 201F | CIT | U ELEM. NOT | COLLECTED D | OT. D STAFFOR | <u>ر</u> | |
| ** SOUR | CE: SIMMONS CA | SKET CO | | | | | CII | Y: LANCASTER | 00 (00 (00 | ST: KY | 00 (00 (00 | ** |
| | ION ID: SS-05 | . | | | | | COL | LECTION START: | 02/26/92 | 1755 STOP: | 00/00/00 | ** |
| | NUMBER: 17847 | SA | S NUMBER: | | | | MD | NUMBER: CL64 | | | | ** |
| ** | | | | | | | | | | | | ** |
| *** * * * | * * * * * * * | * * * * * * | * * * * | * * * * | * * * | * * * | | | * * * * * | * * * * * * | * * * * * * | * * * *** |
| MG/KG | | ANALYTICAL | RESULTS | | | | MG/KG | | ANALYTICAL | . RESULTS | | |
| 10000 | ALUMINUM | | | | | | 730J | MANGANESE | | | | |
| 7.6UR | ANTIMONY | | | | | | 0.13U | MERCURY | | | | |
| | ARSENIC | | | | | | 11 | NICKEL | | | | |
| 6 . 1 61 | BARIUM | | | | | | 900 | POTASSIUM | | | | |
| 0.82 | BERYLLIUM | | | | | | 0.98UJ | SELENIUM | | | | |
| 105 | CADMIUM | | | | | | 1.200 | SILVER | | | | |
| 960001 | CALCIUM | | | | | | 120 | SODIUM | | | | |
| 900000 | | | | | | | 0.49U | THALLIUM | | | | |
| 13 10 35J | CHROMIUM | | | | | | | | | | | |
| 10. | COBALT | | | | | | ŅĄ | TIN | | | | |
| 351 | COPPER | | | | | | 17. | VANADIUM | | | | |
| 20000 | IRON | | | | | | 45J | ZINC | | | | |
| 26J | LEAD | | | | | | 23 | PERCENT MOI | STURE | | | |
| 14000J | MAGNESIUM | | | | | | | | | | | |

REMARKS

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| METALC DATA DEDODY | EPA-KEGIUN IV ESD, ATHE | INS, GA. | 04/02/92 |
|---|---------------------------------------|--|---|
| METALS DATA REPORT *** * * * * * * * * * * * * * * * * * | CIŤÝ: COLLE | ELEM: NSF COLLECTED BY: B STA : LANCASTER ST: KY ECTION START: 02/26/92 1820 S JUMBER: CL65 | * * * * * * * * * * * * * * * * * * * |
| ### # # # # # # # # # # # # # # # # # | * * * * * * * * * * * * * * * * * * * | ANALYTICAL RESULTS MANGANESE MERCURY NICKEL POTASSIUM SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM ZINC PERCENT MOISTURE | * |

REMARKS

REMARKS

^{*}FOUNDIES***
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04/02/92

| ** STAT | * * * * * * * | SKET CO | * * * * * NO. 65472 AS NUMBER: | * * * * SAMPLE | * * * TYPE: | * * * * * SOIL | CITY | * * * * * * * * * * * * * * * * * * * | | BY: B STAFFO ST: KY 1900 STOP | P: 00/00/00 | * * * * *** |
|--|--|--------------------------|--------------------------------------|-------------------|----------------|-------------------|--|--|---------------------------|-------------------------------------|------------------|-------------|
| *** * * * MG/KG 270 6.4U 0.79 0.56 0.21U 0.21U 19U 1.1 0.62U 0.72 250 0.73 20U | * * * * * * * * ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM CHROMIUM COBALT COPPER IRON LEAD MAGNESIUM | * * * * * * * ANALYTICAL | 'RESULTS | * * * * | * * * | * * * 1 | * * * * * * MG/KG O.57 O.11U O.83U 20 O.85U 1U 58 O.43U NA O.94 4.4 | MANGANESE MERCURY NICKEL POTASSIUM SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM ZINC PERCENT MOI | * * * * * * * * ANALYTICA | L RESULTS | : * * * * | * * * * *** |

REMARKS ***REMARKS***

FOOTNOTES

METALS DATA DEDORT

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region IV

Environmental Services Division

College Station Road, Athens, Ga. 30613

WPB/SAS KPA - REGION IV ATLANTA, GA

****MEMORANDUM*****

DATE: 04/03/92

Results of Specified Analysis; SUBJECT:

92-0331 SIMMONS CASKET CO

LANCASTER KY CASE NO: 17847

FROM: Robert W. Knight

Chief, Laboratory Evaluation/Quality Assurance Section

TO: JOE SLYKERMAN

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

INORGANIC DATA QUALIFIERS REPORT

Case Number: 17847
Project Number: 92-0331
Site: Simmons Casket Co., Lancaster, KY

| Element Flag | | Samples Affected | Reason | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|
| Al, Cd, Cr, Fe Mn, V, Zn | U | All positives > IDL, but < CRDL | Baseline Instability | | | | | |
| Ва | U | All positives > IDL, but < 10X contaminant level | Positives in blanks | | | | | |
| Sb | J | All positives All negatives | Matrix spike recovery = 26.5% | | | | | |
| Cd | J | All | Matrix spike recovery - 60.9% | | | | | |
| Cu | J | All positives | Matrix spike recovery - 669.1% | | | | | |
| Se | J | All | Matrix spike recovery - 63.9% | | | | | |
| Ag | J | All | Matrix spike recovery - 58.7% | | | | | |
| Zn | J | A11 | Matrix spike recovery - 59.5% | | | | | |
| Ca | J | A11 | Matrix duplicate RPD - 62.5% | | | | | |
| РЪ | J | A11 | Matrix duplicate RPD - 43.3% | | | | | |
| Mg | J | A11 | Matrix duplicate RPD - 36.4% | | | | | |
| Mn | J | A11 | Matrix duplicate RPD - 42.2% | | | | | |
| РЬ | J | MDCL62 and MDCL63 | Duplicate MSA $r < .995$ | | | | | |
| Cd | J | MDCL61 | % RSD > 20% for ICP multiple exposures | | | | | |
| Ве | J | MDCL63 | % RSD > 20% for ICP multiple exposures | | | | | |

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ŠŤ: KŸ

PROJECT NO. 92-0331 SAMPLE NO. 65462 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-01 CASE.NO.: 17847 SAS NO.: COLLECTION START: 02/26/92 0940 STOP: 00/00/00 D. NO.: CL56 MD NO: CL56

RESULTS UNITS PARAMETER 6.9U MG/KG CYANIDE

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROG ELEM: NSF COLLECTED BY: B STAFFORD

PROJECT NO. 92-0331 SAMPLE NO. 65463 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-01 CASE.NO.: 17847 SAS NO.: CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1130 STOP: 00/00/00
D. NO.: CL57 MD NO: CL57 ** **

** ** ** * ***

> RESULTS UNITS PARAMETER 8.50 MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65464 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SD-02 CASE.NO.: 17847 SAS NO.: PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY

COLLECTION START: 02/26/92 1300 STOP: 00/00/00 D. NO.: CL58 MD NO: CL58

RESULTS UNITS PARAMETER 7.5U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65465 SAMPLE TYPE: SOIL **

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PROG ELEM: NSF COLLECTED BY: B STAFFORD ST: KY COLLECTION START: 02/26/92 1340 STOP: 00/00/00 D. NO.: CL59 MD NO: CL59

SOURCE: SIMMONS CASKET CO STATION ID: SD-03 CASE.NO.: 17847 SAS NO.:

**

RESULTS UNITS PARAMETER 5.9U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65466 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER

ST: KY STATION ID: SD-04 COLLECTION START: 02/26/92 1450 STOP: 00/00/00 ** CASE.NO.: 17847 MD NO: CL60 SAS NO.: D. NO.: CL60 **

> RESULTS UNITS PARAMETER 8.1U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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SPECIFIED ANALYSIS DATA REPORT

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PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY

PROJECT NO. 92-0331 SAMPLE NO. 65467 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-02 CASE.NO.: 17847 SAS NO.:

CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1525 STOP: 00/00/00
D. NO.: CL61 MD NO: CL61

RESULTS UNITS PARAMETER 6.9U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65468 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD

SOURCE: SIMMONS CASKET CO

CITY: LANCASTER ST: KY
COLLECTION START: 02/26/92 1630 STOP: 00/00/00 STATION ID: \$5-03 CASE . NO .: 17847 SAS NO.: D. NO.: CL62 MD NO: CL62

> RESULTS UNITS PARAMETER 6.4U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: B STAFFORD ** PROJECT NO. 92-0331 SAMPLE NO. 65469 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-04

SAS NO.:

CITY: LANCASTER

ST: KY

CASE . NO .: 17847

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COLLECTION START: 02/26/92 1705 STOP: 00/00/00

MD NO: CL63

D. NO.: CL63

RESULTS UNITS PARAMETER 6.1U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65470 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-05 CASE.NO.:

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1755 STOP: 00/00/00 D. NO.: CL64 MD NO: CL64

** * *

> RESULTS UNITS PARAMETER 6.3U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 92-0331 SAMPLE NO. 65471 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-06 CASE.NO.: 17847 SAS NO.:

PROG ELEM: NSF COLLECTED BY: B STAFFORD CITY: LANCASTER ST: KY COLLECTION START: 02/26/92 1820 STOP: 00/00/00 D. NO.: CL65 MD NO: CL65

** ** ** **

RESULTS UNITS PARAMETER 6.1U MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

04/02/92

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SPECIFIED ANALYSIS DATA REPORT

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PROG ELEM: NSF COLLECTED BY: B STAFFORD

CITY: LANCASTER ST: KY

PROJECT NO. 92-0331 SAMPLE NO. 65472 SAMPLE TYPE: SOIL SOURCE: SIMMONS CASKET CO STATION ID: SS-07 CASE.NO.: 17847 SAS NO.: COLLECTION START: 02/27/92 1900 STOP: 00/00/00 D. NO.: CL54 MD NO: CL54

** ** ** **

> RESULTS UNITS PARAMETER 5.50 MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

B & V WASTE SCIENCE & TECHNOLOGY CORP.

1117 PERIMETER CENTER WEST SUITE W-212 ATLANTA. GEORGIA 30338 TEL (404) 392-9227 FAX: (404) 392-9289

USEPA Simmons Casket Company W.A. No. 11 FEB 27 1992

WST Project 52011.020 BVWST File C.3 February 27, 1992

Mr. Al Hanke
Chief, Site Assessment
U.S. Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Subject: Field Study Plan -Simmons Casket

Dear Mr. Hanke:

Please find attached the Field Study Plan for the Simmons Casket Co., in Lancaster, Kentucky (EPA ID NO. KYD050074889). This plan incorporates all comments provided by Loften Carr of the Site Assessment section. It is our policy <u>not</u> to proceed with field activities without an approved study plan. We have taken actions to prevent this from occurring again. If you have any further questions concerning this plan or other issues, please give me a call.

Sincerely,

B&V WASTE SCIENCE AND TECHNOLOGY CORP.

Hubert Wieland Project Manager

Enclosures

cc: Charles Swan, EPA PO

Keith Mills, EPA Contracting Specialist

Loften Carr, EPA SAM

FIELD STUDY PLAN SITE INSPECTION Simmons Casket Company Lancaster, Garrard County, Kentucky

EPA ID NO. KYD050074889

Prepared Under

CONTRACT NO.68-W9-0055

FOR THE

WASTE MANAGEMENT DIVISION : U.S. ENVIRONMENTAL PROTECTION AGENCY

February 27, 1992

Prepared by

Carter J. Helm

B&V WASTE SCIENCE AND TECHNOLOGY CORP

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STUDY PLAN SITE INSPECTION

Simmons Casket Company Lancaster, Garrard County, Kentucky EPA ID No. KYD050074889 wastelan №05160

1.0 INTRODUCTION

B & V Waste Science & Technology has been tasked by the U. S. Environmental Protection Agency (EPA), to conduct a Site Inspection (SI) at the Simmons Casket Company in Garrard County, Kentucky. The inspection will be performed under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA).

1.1 Objectives

The objectives of this site inspection will be to determine the nature of contaminants present at the site and to determine if a release of these substances has occurred or may occur. Further, this inspection will seek to determine the possible pathways by which contamination could migrate from the site and the populations and environments it would potentially affect. Through these objectives, a recommendation will be made regarding future activities at the site.

Specific elements are:

- Obtain information to prepare a site-specific preliminary Hazard Ranking Score (HRS)
- Provide EPA the necessary information to make decisions on any other actions warranted at the site.

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1.2 Scope of Work

The scope of this investigation will include the following activities:

- Obtain and review background materials relevant to HRS scoring of site
- Obtain aerial photographs and maps of site, if possible
- Obtain information on local water systems
- Evaluate target populations associated with the groundwater, surface water, air and onsite exposure pathways
- Determine location and distance to nearest potable well
- Develop a site sketch
- Collect environmental samples

1.3 Schedule

Field work for the Simmons Casket Company is scheduled for the week of February 24, 1992.

1.4 Personnel

Site Manager: Carter J. Helm

Site Safety Coordinator: Bill Stafford

Sampling Officer: Kevin Brown

1.5 Permits and Authorization Requirements

EPA is responsible for obtaining access to the site, permission to take photographs of site, and permission to return investigation derived wastes to the property. In addition, EPA is responsible for all permits which may be required to accomplish this task.

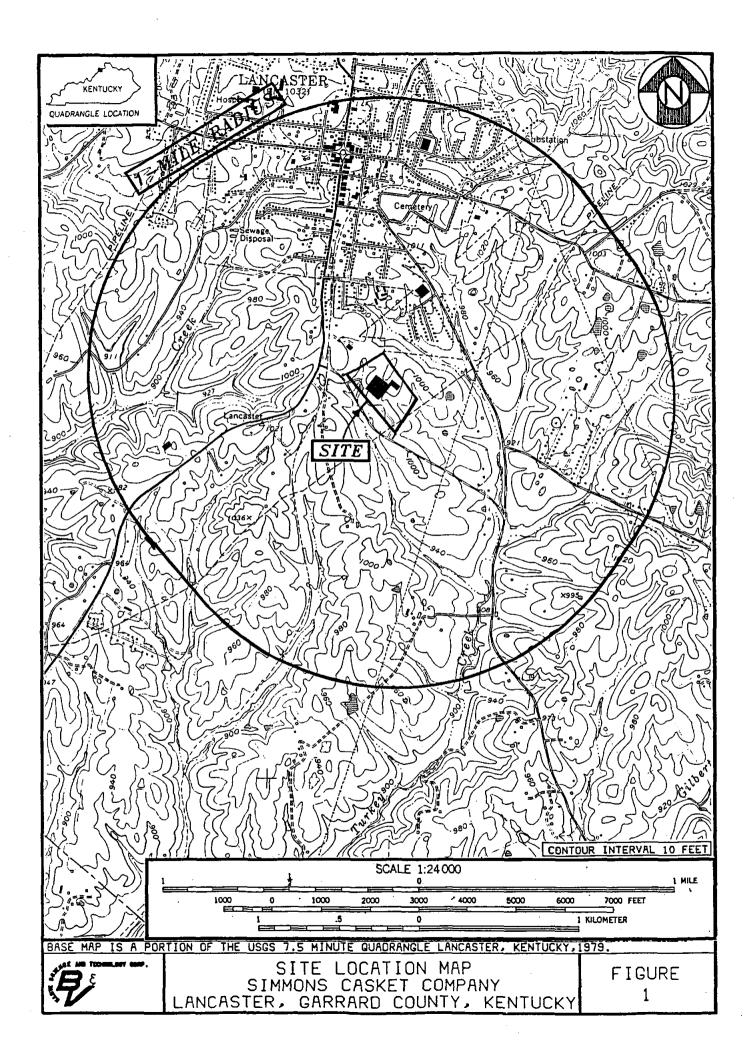
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1.6 Site History and Description

The Simmons Casket Company, 163 Industry Road, is located 0.7 miles south of Lancaster, Kentucky in Garrard County. The geographic coordinates are 37° 36' 21" N. latitude and 84° 34' 35" W. longitude (Ref. 1). The site location is shown on Figure 1. Wooden and metal (steel, copper, and bronze) caskets were produced at the facility from 1965 to 1984. From 1965 to 1980, National Casket Company operated

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the facility; from 1980 to late 1982, Simmons Casket Company produced caskets; and from 1982 to 1985, York Casket Company was the manufacturer (Ref. 2). The manufacturing process consisted of welding, washing, painting, stripping, and varnishing the caskets (Ref. 2). Wastes produced during the years of operation include: Toluene, phenols, paint thinner, and 1,1,1-trichloroethane (Ref. 3). Hazardous wastes generated at the facility were placed in drums and kept onsite until a hazardous waste transporter removed them (Ref. 2). The site layout is shown on Figure 2.

In 1984 operations ceased; however, several full drums remained on site. In 1987 the facility was sold to Allison Abrasives, Incorporated, who renovated the facility and removed underground storage tanks. In October, 1987, Allison Abrasives began production of abrasive wheels (Ref. 2). Drums are no longer stored outside of the plant.

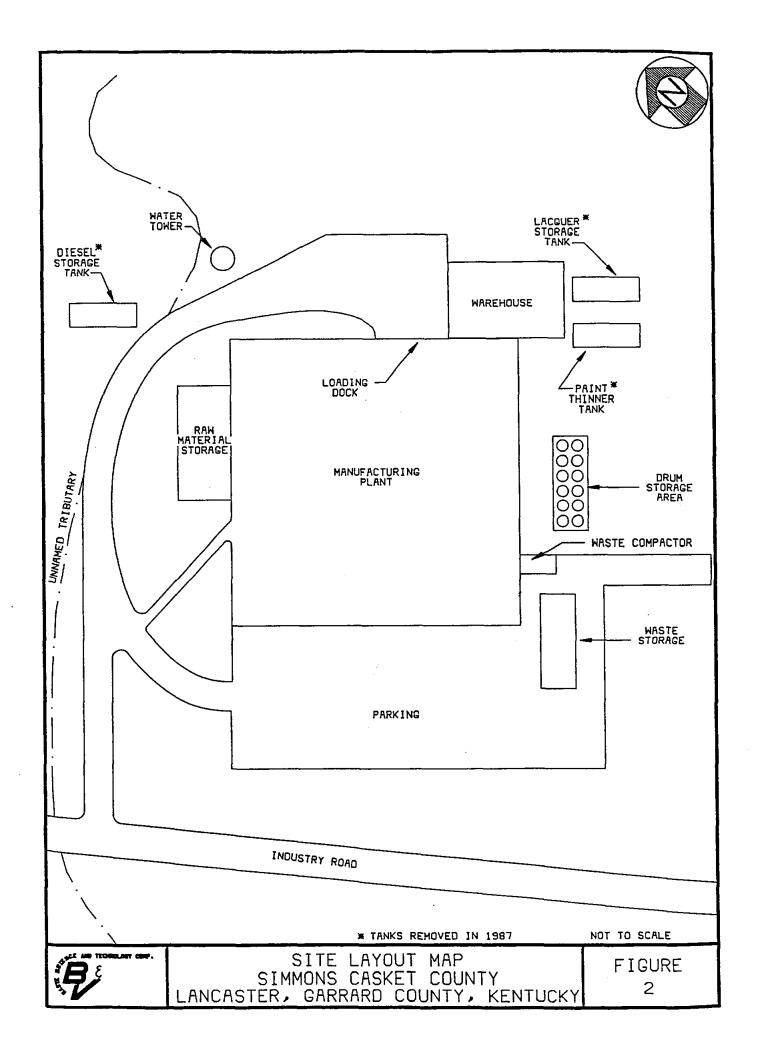
On October 27, 1989, the Kentucky Department of Waste Management conducted a preliminary assessment site visit. Unidentified drums were discovered on the east side of the plant, as well as stained soil and stressed vegetation (Ref. 2).

1.7 Hydrogeology

The Simmons Casket Company is located in the Interior Low Plateaus physiographic province and the nonglaciated central groundwater region (Refs. 5, plate 28; 6, p. 223, 25, 26). The region is characterized by thin regolith over sedimentary rock with area topography between 800 to 1100 feet above mean sea level (amsl); whereas, the facility lies at 1000 feet amsl (Refs. 1, 7, pp. 229-30). The mean annual precipitation is 48 inches, and the mean annual lake pan evaporation is 35 inches, resulting in a net annual rainfall of 13 inches (Ref. 8, pp. 43, 63). The 2-year, 24-hour rainfall is 3.0 inches (Ref. 9, p. 95).

The soil beneath the Simmons Casket Company is classified as the Lowell series Nicholson silt loam (Refs. 2, 10). This soil type is characterized by: 2 percent to 6 percent slopes, 2-3 feet depth, good tilth, high erodibility, and high acidicity (Ref. 10).

Beneath the soil lies the New Albany Shale of Devonian and Mississippian age characterized as black shale with fine-grained quartz and pyrite (Ref. 11, pp. 24-25).



Underlying the New Albany Shale is the Boyle Dolomite which consists of dolomite and dolomitic limestone (Refs. 2; 11, p. 21-25). The combined thicknesses of these formations is approximately 190 to 240 feet thick (Ref. 11, P. 24).

Most wells in the area do not produce enough water for domestic supply and wells deeper than 100 feet tend to produce groundwater that is not suitable for potable use due to high salinity and high concentrations of hydrogen sulfide (Ref. 2).

2.0 Sampling Investigation

The sampling investigation will include the collection of surface and subsurface soil samples, sediment samples, and groundwater samples. All samples collected will be analyzed for extractable and purgeable organic compounds, pesticides, PCB, cyanides, and metals. Analyses will be performed under the Contract Laboratory Program (CLP).

2.1 Surface Soil Sampling

Five surface soil samples will be collected during the sampling inspection; one as a background in the northeast corner of the site, four others from various positions around the Simmons Casket Company. These last four samples will be collected to determine the absence or presence of contaminants. Sample codes and descriptions are listed on Table 1 and shown on Figure 3.

2.2 Subsurface Soil Sampling

Four subsurface soil samples will be collected at the Simmons Casket Company; one as a background, in the northeast corner of the facility, and three onsite to determine the absence or presence of contaminants. Sample codes and descriptions are listed on Table 1 and shown on Figure 3.

2.3 Groundwater Sampling

Groundwater will be collected from four temporary monitoring wells located onsite, one of which will serve as the background. The temporary wells will be emplaced during the investigation. Sample codes and descriptions may be found in Table 1 and are shown on Figure 3. Use of private wells in the area is extremely limited. Most

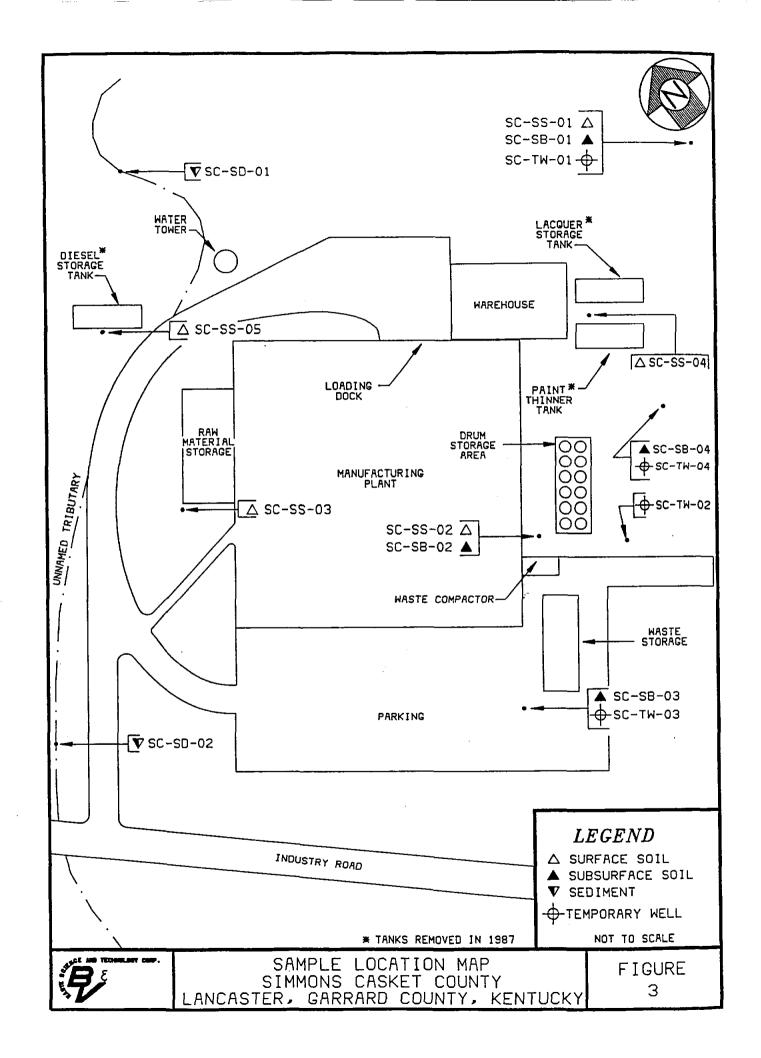


TABLE 1 SAMPLE LOCATIONS AND RATIONALE

Simmons Casket Company Lancaster, Garrard County, Kentucky

| Sample Code | Sample Type | Location | Rationale |
|-------------|----------------------------|--|--|
| SC-SS-01 | Surface Soil | southeast corner of property | to establish background levels |
| SC-SS-02 | Surface Soil | drum storage area, south of plant | to determine the absence or presence of contaminants |
| SC-SS-03 | Surface Soil | near drainage area of raw material storage | to determine the absence or presence of contaminants |
| SC-SS-04 | Surface Soil | at previous location of underground storage tanks | to determine the absence or presence of contaminants |
| SC-SS-05 | Surface Soil | at previous location of underground storage tanks | to determine the absence or presence of contaminants |
| SC-SB-01 | Subsurface Soil | southeast corner of property | to establish background levels |
| SC-SB-02 | Subsurface Soil | drum storage area, south of plant | to determine the absence or presence of contaminants |
| SC-SB-03 | Subsurface Soil | near waste storage area | to determine the absence or presence of contaminants |
| SC-SB-04 | Subsurface Soil | at previous location of underground storage tanks | to determine the absence or presence of contaminants |
| SC-TW-01 | Temporary Well Groundwater | southeast corner of property | to establish background levels |
| SC-TW-02 | Temporary Well Groundwater | drum storage area, south of plant | to determine the absence or presence of contaminants |
| SC-TW-03 | Temporary Well Groundwater | near waste storage area | to determine the absence or presence of contaminants |
| SC-TW-04 | Temporary Well Groundwater | downgradient of raw material storage area | to determine the absence or presence of contaminants |
| SC-SD-01 | Sediment Sample | upstream of unnamed tributary | to establish background levels |
| SC-SD-02 | Sediment Sample | downstream of unnamed tributary past manufacturing plant | to determine the absence or presence of contaminants |

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people use the municipal system or a cistern. However, if private wells exist near the facility, they will be sampled.

2.4 Sediment Sampling

A total of two sediment samples will be taken from the unnamed tributary, running through the western portion of the site property, flowing south. A background sample will be collected north of the site, while an indicator sample will be collected south of the plant.

2.5 Analytical and Container Requirements

Sample containers used will be in accordance with the requirements specified in the Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual: United States Environmental Protection Agency, Region IV, Environmental Services Division, February 1, 1991. The following is a description of the analysis and types of containers required.

| Analyses | Container | Preservatives ** |
|------------------------------------|------------------------|-------------------------------|
| Extractable Organics, Water | 1 gal., amber glass * | None |
| Volatile Organics, Water | 3-40 ml., glass vial * | 4 drops conc. HCL to pH <2 |
| Metals, Water | 1 liter, plastic | 50% HNO ₃ to pH <2 |
| Cyanide, Water | 1 liter, plastic | NaOH to pH >12 |
| Extractable Organics Soil/Sediment | 8 oz., glass * | None |
| Volatile Organics Soil/Sediment | 2 oz. (60 ml VOA Vial) | None |
| Inorganics Soil/Sediment | 8 oz., glass * | None |

- * Sample container lids are lined with teflon
- ** All samples will be iced to 4°C upon collection

2.6 Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation will be in accordance with the standard operating procedures as specified in Section 3 and 4 of the Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, February 1, 1991.

Surface soil and sediment samples will be collected using a stainless steel spoon and a 2 or 4 quart glass bowl. Containers being analyzed for volatile organic compounds (VOC), will be collected first and directly into the appropriate containers. The remainder of the sample will be collected into the glass bowl, mixed thoroughly, then distributed to the proper containers. Surface soil samples will be collected from a depth of 0 to 6 inches.

Subsurface soil samples will be collected from bore holes advanced using either a hydraulic auger or a hand auger, depending on soil conditions. A clean auger bucket is used to collect the sample after reaching the desired depth, and the VOC containers are filled first. The sample is then collected into the glass bowl, mixed thoroughly, and put into the appropriate containers. Subsurface soil samples will be below the water table to document, if present, an observed release to the groundwater.

Groundwater samples from temporary wells will be collected after the bore hole is advanced using the hydraulic auger or a hand auger, and the well casing is emplaced. The sample is collected using the peristaltic pump, and purged until a reasonably sediment free water sample can be collected. VOC samples are to be collected directly from the teflon tubing in the well, whereas the remainder of the sample will be gathered in the 1 gallon amber glass jug and sequentially distributed into the other

containers. Temporary well samples will be collected from a depth corresponding to the saturation zone.

All laboratory analyses and laboratory quality assurance procedures used during this investigation will be in accordance with standard procedures and protocols as specified in the Analytical Support Branch's <u>Laboratory Operations and Quality Control Manual</u>; United States Environmental Protection Agency, Region IV, Environmental Services Division, October 1990; or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.

2.7 Investigation Derived Waste

Investigation derived wastes in the form of soils and sludges will be returned to the boreholes from which they were collected. Aqueous wastes such as purged waters from temporary wells will be dispersed at a distance of 5 to 15 feet downgradient of the collection point. Potentially contaminated personal protective clothing will be collected and removed from the site for disposal. Decontamination rinse and wash water will be dispersed onsite when feasible, or drummed and removed for disposal at a later date, if conditions warrant.

REFERENCES

- 1. U. S. Geological Survey, 7.5 minute series. Topographic Quadrangle Maps of Kentucky: Bryantsville, 1952 (Photo revised 1979); Buckeye, 1952; Lancaster, 1961 (PR 1979); Stanford, 1961 (PR 1979). Scale: 1:24,000.
- 2. Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Preliminary Assessment for Simmons Casket Company. Filed by Carl Millanti, Manager, Uncontrolled Sites Branch, October 12, 1990.
- 3. Notification of Hazardous Waste Site (EPA Form 8900-1) for Simmons Casket Company. Filed by Frank Madden, Jr., August 7, 1981.
- 4. Hannah Leonard, Supervisor of the Frankfort Field Office, Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Memorandum to Carl Schroeder, Manager of the Frankfort Field Office, August 14, 1984. Subject: Drums Left on Site by York Casket Company.
- 5. U. S. Geological Survey, <u>Reconnaissance of Ground-Water Resources in the Blue Grass Region of Kentucky</u>, Water Supply Paper 1533, 1961.
- 6. U. S. Geological Survey, <u>National Water Summary 1984</u>, Water Supply Paper 2275, 1984.
- 7. Linda Aller et al., <u>DRASTIC: A Standardized System for Evaluating Groundwater Pollution Potential Using Hydrogeologic Settings</u>, EPA -600/2-87-075 (Ada, Oklahoma, 1987).
- 8. U. S. Department of Commerce, <u>Climatic Atlas of the United States</u>, (Washington, D. C.: GPO, June 1968) Reprint: 1983, National Oceanic and Atmospheric Administration.

- 9. U. S. Department of Commerce, <u>Rainfall Frequency Atlas of the United States</u>, Technical Paper No. 40 (Washington, D. C.: GPO, 1963).
- 10. U. S. Department of Agriculture, Soil Conservation Service, <u>Soil Survey Map of Allison Abrasives</u>, (1992).
- 11. R. Allan Freeze and John A. Chervy, <u>Groundwater</u>, Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1979.

CARL H. BRADLEY
SECRETARY



WALLACE G. WILKINSON
GOVERNOR

Rec'd go

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FRANKFORT OFFICE PARK
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

551 Repriority

October 12, 1990

Craig Benedikt CERCLA PA/SI Regional Project Officer U.S. Environmental Protection Agency 345 Courtland Street, N.E. Atlanta, Georgia 30365

RE:

Preliminary Assessment (2) Simmons Casket Company Lancaster, Kentucky EPA ID# KYD 050-074-889

Dear Mr. Benedikt:

Submitted for your review is the Preliminary Assessment (2) for the Simmons Casket Company. This report is intended to update the Preliminary Assessment dated 21 March, 1984. Based on this report the following conclusions are made:

- 1. Finishing wastes were generated at the site from 1965 to 1984.
- 2. Stained soil and unidentified drums were found on the east side of the facility during a site visit in October 1989.
- 3. There are approximately 1330 potential ground water users located within 4 miles of the site.

As a result of this reassessment, the Kentucky CERCLA PA/SI program is recommending that a high priority Site Screening Investigation be planned for the Simmons Casket Company site.

Sincerely

Carl Millanti, Manager
Uncontrolled Sites Branch

CM/CC/RP/kb

Preliminary Assessment (2)

of the former

Simmons Casket Company

Lancaster, Kentucky

by

Carolyn Clark and Robert Pugh

Uncontrolled Sites Section

Waste Management Division

Department for Environmental Protection

Commonwealth of Kentucky

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- B Photographics Log
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- D Site Documents
- E Field Notes
- F Climate and Soil Information
- G Critical Habitats

SITE HISTORY

The Simmon Casket Company is located in Lancaster, Garrard County, Kentucky. Wooden and metal (steel, copper, and bronze) caskets were produced at the site from 1965 to 1984. The National Casket Company operated the site followed by Simmons Casket Company, and then York Casket Company.

The first step of the manufacturing process consisted of welding the caskets together. The next step was a 3 stage washer system. The first washer contained a mixture of detergent, from the Dubose Chemical Company, and water. When this solution was spent, it was diluted with soda ash and dumped in the sewer. The other 2 washers contained only water. A concrete berm was located in the washer area to contain overflow from the washers.

The final manufacturing step involved painting and lacquering the caskets. There were 6 paint booths and 2 lacquer booths. A vat used for stripping paint and varnish was also located in the painting/varnishing area.

Paint thinner was the only solvent used at the facility according to a former employee. A small amount of paint thinner was placed on rags and used to wipe off excess paint when necessary. Paint thinner was also placed in the stripping vat.

Hazardous wastes generated at the facility (EPA ID# KYD 05-007-4889) were placed in drums and kept on site until being picked up by the Oil Service Co. of Columbia, KY and taken to Reclaimed Energy Inc. of Connersville, IN.

In 1984, operations at the site ceased. Several drums of waste remained on site until 1985. In 1987 the facility was sold to Allison Abrasives, Incorporated. The facility was renovated and several structural changes took place. The renovations included the removal of three underground storage tanks. No evidence of soil or groundwater contamination was detected. In October of 1987, operations at the facility began. Allison Abrasives produces abrasive wheels.

On October 27, 1989, the Kentucky Department of Waste Management CERCLA conducted a PA site visit at the facility. Several unidentified drums and stained soil were found on the east side of the plant. There was evidence of careless handling of drums (Appendix B).

ENVIRONMENTAL SETTING

The Simmons Casket Company site is located in Garrard County, Kentucky, a part of the outer Blue Grass Physiographic Region. The topography of this area is typically gently rolling hills. Sinkholes are not well developed in this area due to the restriction of groundwater circulation by shally limestone (U.S.G.S. 1964).

The climate in Garrard County is moderate with warm summers and cool winters. The average annual precipitation is approximately 46 inches. The average annual net precipitation is approximately 11 inches (Appendix F).

The soil at the Simmons Casket Company site is classified as the Lowell series. This soil is typically residuum of interbedded limestone, calcareous shale, and siltsone. A representive profile is 11 inches of brown silt loam, 30 inches of brown, very firm clay and silty clay, followed by 12 inches of gray and yellowish brown mottled, very firm clay. The permeability ranges between 0.2 to 2.0 inches per hour. The pH of the soil

ranges between 4.5 to 7.8 (Appendix F).

The geological formation underlying the site is New Albany Shale of the Devonian Age. It is primarily composed of black shale with fine-grained quartz, crystalline pyrite, fine-grained material which is calcitic, phosphatic, ferric or organic. The New Albany Shale is underlain by Boyle Dolomite which is mostly dolomite and dolomitic lime-stone (U.S.G.S. 1971 and U.S.G.S. 1960).

Most drilled wells in the area of the Simmons Casket Company site do not produce enough water for a dependable domestic supply. Groundwater obtained from depths greater than 100 feet may contain salt or hydrogen sulfide (U.S.G.S. 1960).

Surface water at the site enters the Lancaster sewer system (Appendix A).

TARGET ANALYSIS

There is no quantitative data to support an air route assessment, therefore, the air route was not evaluated.

Access to the Simmons Casket Company site is not restricted. Consequently, there is the potential for direct contact to local human, animal, and botanical populations.

Municipal drinking water is supplied to local residents by Lancaster Water Works, Garrard County Water Association Incorporated, and Crab Orchard Water District. The Garrard County Water Association and the Crab Orchard Water District purchase water from the Lancaster Water Works which obtains water from 2 lakes located outside of a four mile radius of the site.

A ground water user survey indicates there are approximately 1330 potential ground water users located within a four mile radius of the Simmons Casket Company site. This value was determined by eliminating the areas of municipal supply as provided by water companies. The remaining unserviced houses, shown on 7.5 minute U.S.G.S. topographic maps of the area, were multiplied by a 3.8 population conversion factor. The calculated value may be inflated due to the use of cisterns and hauled water in the area (Appendix A).

According to the Kentucky Nature Preserves Commission, there is one statelisted, threatened species, <u>Simpsonaias ambigua</u>, residing within a four mile radius of the site (Appendix H).

REFERENCES

1964, U.S.G.S., Geochemistry of Natural Waters of the Blue Grass Region, Kentucky.

1960, U.S.G.S., Availability of Groundwater in Boyle, Garrard, Lincoln, and Mercer Counties, Kentucky.

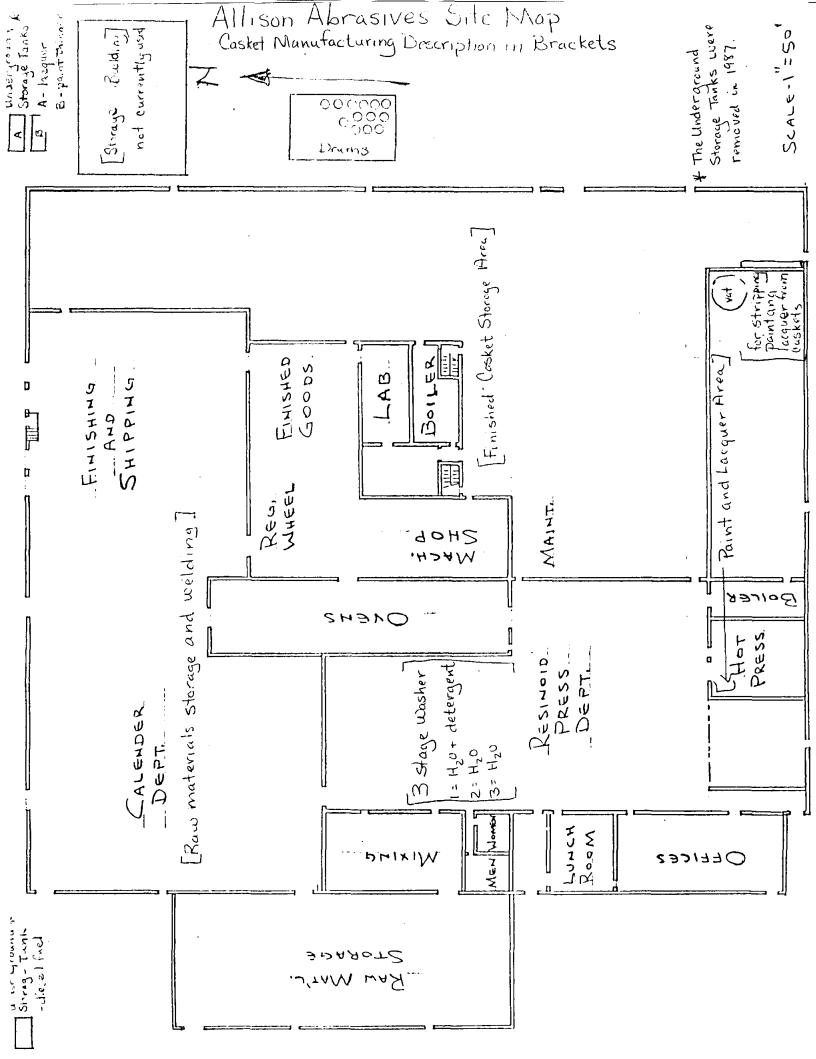
1971, U.S.G.S., Geologic Map of the Lancaster Quadrangle, Garrard and Lincoln Counties, Kentucky.

A

<u>OVERSIZED</u>

DOCUMENT MAP





Appendix to the Simmons Casket Company (Allison Abrasives) Site Map

Welding and Raw Materials Area

The parts (composed of steel, copper, and bronze) were stored and welded together in this area.

3 Stage Washer Area

The first washer contained water plus a detergent from the Dubose Chemical Company. The spent washer solution was mixed with 6 bags of soda ash before it was dumped into the sewer system. The other two washers contained only water.

Paint Area

The caskets were sprayed with paint and lacquer in this area. At one end was a vat used to dip and strip lacquer and paint from caskets.

Storage Area and Storage Building

Finish caskets were stored here.

Underground Storage Tanks - removed in 1987

#1 - contained diesel fuel

#2 - contained lacquer

#3 - contained paint thinner

| Record of | ₩ PHONE CALL | DISCUSSION | □on-site |
|--|-----------------------|---------------|----------------|
| Communication | CONFERENCE | OTHER | ON-CALL |
| | FROM: | DATE: | 72/90 |
| subject: | Caxolyn Crawcraft | • | _ |
| hater distributions u | ifin 4 miles of the | Simmons (| asket (a. Site |
| SUMMARY OF COMMUNICATION: | | | |
| Municipal w | ater information ca | me trova 2 | Sources: |
| researching the Un | controlled Sites Bran | chi water li | nes tile and |
| talking to Vivian | Cotton of the Lan | caster Water | r works, |
| Ms Cotton stated It | at Lancaster Water | Works obta | ing Wiler |
| from two City lake | located southwes | t ot Lanco | aster of f |
| of highway Frand | I from the Kentuck | .g River at c | en Intake |
| located more than | 4 miles away tron | n Lancaster | Ms willow |
| Said Lancaster Wat | er Works sells wat | ter Garrard | County |
| Said Lancaster Wal | and Crab Orchar | d Water I |)istrict. |
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| CONCLUSIONS, ACTION TAKEN OF REQUIRED: | | | 14 |
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INFORMATION COPIES

TO:

GROUNDWATER USER DATA DOCUMENTATION

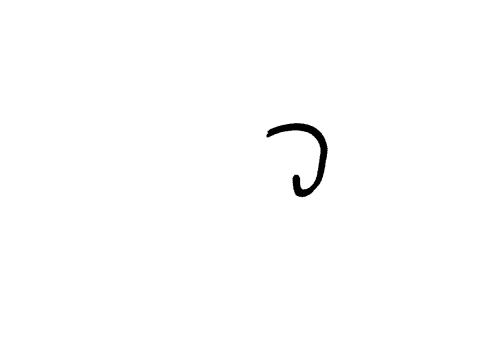
| NAME OF SITE | Simmons Casket Comp | Xt ny | |
|--------------|---|--|--|
| COUNTY: | Garrad | | |
| RADIUS | HOUSE/BUILDING COUNT | POPULATION | |
| ∦ МЏе | . 4 | 15.2 | |
| 1 МПе | 0 | 6 | |
| 1 МЦе | /3 | 49.4 | |
| 2 Miles | 88 | 334.4 | |
| 3 Miles | 72 | 273.6 | 3 mile tote 672.6 |
| 4 Miles | 173 | 657.4 | 4 mile to |
| MEHTODOLOG | Y: House and building counts are map(s). These numbers are factor of 3.8 persons per Uncontrolled Hazardous Wa Manual, to obtain population | then multiplied by the household, as suggeste aste Site Ranking Sys | opographic conversion d in EPA's |
| REFERENCES | 7.5 Min U.S.G.S. Topographic N | Maps: Lauruster Quadr Buckeye Quadr Bryantavillo Qua Standford Quad | angle drancle |
| COMMENTS | | | |



(PHOTOGRAPS)

WEDIV

NASCANABLE





MARTHA LAYNE COLLING

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

MEMORANDUM

TO:

Caroline P. Haight, Manager

Permit Review Branch

FROM:

Barry Burrus, Chief

Uncontrolled Sites Section

SUBJECT:

Uncontrolled Site Close-out for Simmons Casket Co. Site

Garrard County

DATE:

March 21, 1984

Simmons Casket Co. (now the York Casket Co.) is a manufacturer of wooden and metal caskets. The wastes produced by this facility include solvent waste which are transported to Reclaimed Energy, Inc., Connersville, Indiana by a permitted transporter and non-hazardous paint sludge which is disposed of in a permitted landfill.

Prior to September 23, 1982, this facility was regulated by Part "A" of the Federal Hazardous Waste Facility permit application. This accounts for their inclusion on the ERRIS list. On this date the KYNREPC's Division of Waste Management, acting under RCRA Phase I Interim Authorization, withdrew their Part "A". Investigation of the Division of Waste files has determined that no problems have existed with this company's handling of hazardous waste which would qualify them as an uncontrolled site.

In consideration of the aforementioned investigation, I am recommending no further action to be taken on this site and further recommend that it be removed from the uncontrolled site list.

BB/JC/las

ce:

Hannah Leonard

Bob Prewitt

File EPA

' **SEPA**

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMEN

| | TFICATION |
|----------|------------------------------|
| 01 STATE | 02 SITE NUMBER |
| _Ky_ | 02 SITE NUMBER D050074889 |

| PART 1 - SITE INFORMA | TION AND ASSESSMENT |
|--|--|
| II. SITE NAME AND LOCATION | |
| 01 SITE NAME (Legal common, or descriptive name of site) | 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER |
| Simmons Casket Co. | P.O. Box 42 |
| os arv | 04 STATE 05 ZIP CODE 06 COUNTY 07 CODE 0ST |
| Lancaster | KY 40444 Garrard 40 |
| 09 COORDINATES LATITUDE LONGITUDE | |
| 37°36'35".0 84° 34' 45 .0 | |
| 10 DIRECTIONS TO SITE (Starting from nearest public road) | <u> </u> |
| Site is located on Hwy #39827 South | which is the main highway running north |
| and south through the town of Loncaste | r, Kentucky. To reach the site, travel approximately with State Route 52 at the center of Lown. |
| "I WILL SOUTH BUT HAN HES HITELS CEEPIN | with state nowice 32 at the center of Lown. |
| III. RESPONSIBLE PARTIES | |
| 01 OWNER (N known) | 02 STREET (Business, making, resignation) |
| Simmons Universal | 372 Washington Street |
| LOS CITY | 04 STATE 05 ZIP CODE 08 TELEPHONE NUMBER |
| Wellesley Hills | MA 102181 (') |
| 07 OPERATOR (If known and different from owner) | OB STREET (Business, making, residential) |
| York Casket Co (formerly Simmons Casket C | D P.O. Box 42 |
| 09 CITY | 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER |
| Lancaster | KY 40444 (606)792-2101 |
| 13 TYPE OF OWNERSHIP (Check one) | |
| A. PRIVATE DB. FEDERAL: (Agency name) | C. STATE D.COUNTY DE. MUNICIPAL |
| F. OTHER: | G. UNKNOWN |
| 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of their apply) | , |
| ☐ A. RCRA 3001 DATE RECEIVED: ☐ B. UNCONTROLL | LED WASTE SITE ICERCIA 103 cl DATE RECEIVED: |
| HARACTERIZATION OF POTENTIAL HAZARD | |
| 01 ON SITE INSPECTION BY (Check of their assity) | |
| YES DATE 11 , 13 , 83 A. EPA B. EP. | A CONTRACTOR C. STATE D. D. OTHER CONTRACTOR |
| U NO | (Specify) |
| CONTRACTOR NAME(S): 02 SITE STATUS (Check one) (03 YEARS OF OPER | |
| B A ACTIVE B INACTIVE C C. UNKNOWN | 1965 To Date DUNKNOWN |
| | EGINNING YEAR ENDING YEAR |
| POINT THIN OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED | to Reclaimed Energy Inc., Connersville, Ind. for insporter: 0:1 Service Co. Roate3 Petty lane, Columbia, |
| III Trichlorothane recycling by permitted tro | hisporter: Oil Service Co. Routes Petty Land, Columbia, |
| | |
| taint Studge: non-hazordous disposed of in | i permitted linasilli |
| 05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION | |
| NA Please refer to Section IV, | Part 3 of form. |
| | |
| | |
| V. PRIORITY ASSESSMENT | |
| 01 PRIORITY FOR INSPECTION (Check one. If high or medium is cheeked, complete Part 2 - Weste Infor | meaton and Part 3 - Description of Historiaus Canditions and Indicators |
| ☐ A. HIGH ☐ B. MEDIUM ☐ C. LOW (Inspection required promotity) (Inspection required (Inspect on little | D. NONE (No Author editor needed, complete current disposition forms) |
| VL INFORMATION AVAILABLE FROM | |
| D1 CONTACT 02 OF (Agency) Organic | 203 TELEPHONÉ NUMBER |
| Hannah Leonard (filld Supervisor) Env. Protect | 1502)564-6716 |
| 04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY | 08 ORGANIZATION 07 TELEPHONE NUMBER 08 DATE |
| Jim Childers (beologist) Kny Protection | n Div. of Waste Mynt (502) S64-6716 3,20,84 |
| - 111 () 111 () CO WING 13C) INFO TRUCKING | ALDIA O CONTROL LA LA LA LA LA LA LA LA LEVA |

| $\mathbf{\Omega}$ | |
|-------------------|-----|
| | EPA |

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2- WASTE INCORMATION

| | | TEICATION |
|--------|-------|--------------------------------|
| 01 | STATE | 02 SITE NUMBER DOS 007 4889 |

| 1 | | | PART 2 - WASTI | E INFORMATION | . 4 | <u> </u> | |
|---------------|---|----------------------------|--|---------------------------|--|--|--|
| II. WASTES | TATES, QUANTITIES, AN | ID CHARACTER | ISTICS | | | | |
| | TATES (Check at that apply) E. S.LURRY ER, FINES — F. LIQUID E. NA C. G. GAS | 02 WASTE QUANTI | | O3 WASTE CHARACT | OSIVE II F INFE | .UBLE II. HIGHLY! ECTIOUS II. J. EXPLOS MMABLE II. K. REACTI | SIVE TVE PATIBLE |
| IIL WASTE T | ~oc | <u> </u> | | | | | |
| CATEGORY | SUBSTANCE N | JAME | 01 GROSS AMOUNT | 02 UNIT OF MEASURI | RE 03 COMMENTS | | |
| SLU | SLUDGE | - AME | UI GROSS AMOUNT | OZUMI OF MEASS | E 03 COMMENTS | - | |
| OLW | OILY WASTE | | + | | | | |
| | SOLVENTS | | + 1// | 1. | + | | |
| SOL | <u> </u> | | + <i>N/</i> <u>*</u> | <u>p</u> | | | |
| PSD | PESTICIDES | | ļ | | | | |
| OCC | OTHER ORGANIC CH | | ļ | | _ | | |
| ЮС | INORGANIC CHEMIC | ALS | <u> </u> | | ļ | | |
| ACD | ACIDS | | | | | | |
| BAS | BASES | | <u> </u> | | | - <u></u> | · |
| MES | HEAVY METALS | | 1 | <u> </u> | | | |
| IV. HAZARDO | OUS SUBSTANCES (See A | | 7 | | | -, | |
| 01 CATEGORY | 02 SUBSTANCE N | AME | 03 CAS NUMBER | 04 STORAGE/DIS | SPOSAL METHOD | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION |
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| V. FEEDSTO | CKS (See Aspendix for CAS Membe | erti | | | | | |
| CATEGORY | 01 FEEDSTOC | X NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDST | TOCK NAME | 02 CAS NUMBER - |
| FDS | | | 1 | FDS | | | |
| FDS | -\ | ГИ | | FDS | 1/ | 111 | |
| FDS | 77 | 11 | | FDS | 7-7 | 77 | |
| FDS | | | | FDS | | | |
| VL SOURCE | S OF INFORMATION (CAN | apocific references, e.g., | , state files, semple energes, (| reports) | | | |
| KYNR | REPC'S Divisi | on ot w | aste Mana | gement fil | <i>હ</i> | | |
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

| PART 3 - DESCRIPT | TON OF HAZARDOUS CONDITIONS AND INCIDEN | ts LAYLL | 105 007 9889 |
|--|--|-------------|--------------|
| IL HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 C A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 D OBSERVED (DATE | ☐ POTENTIAL | □ ALLEGED |
| | N/A | | |
| 01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | □ POTENTIAL | C ALLEGED |
| | NIA | | |
| 01 © C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | C POTENTIAL | □ ALLEGED |
| | NA | | |
| 01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: | 02 🗆 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL | C ALLEGED |
| | NJA | | |
| 01 ☐ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: | 02 (1) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | C POTENTIAL | C ALLEGED |
| | N/A | | - |
| 01 D F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres) | 02 🗆 OBSERVED (DATE) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL | [] ALLEGED |
| | N/A | | |
| 01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL | □ ALLEGED |
| | N/A | | |
| 01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL | C ALLEGED |
| | NA | | |
| 01 [] I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: | 02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL | □ ALLEGED |
| | N/A | | |
| | ▼ | • | |

| | FFA |
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

| I. IDENTIFICATION | | |
|-------------------|----------------------------------|----|
| 200 | TATE 02 SITE NUMBER | Ö |
| • | TATE 02 SITE NUMBER (Y 050574 | 01 |

| PART 3 - DESCRIPTION | OF HAZARDOUS CONDITIONS AND INCID | ENTS | KYD | 050074889 |
|--|--|---|--|---|
| IL HAZARDOUS CONDITIONS AND INCIDENTS (Com | nued) | | | |
| 01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | 02 OBSERVED (DATE. | _) 🗆 | POTENTIAL | C ALLEGED |
| ÷ | N/A | | | |
| 01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(a) of species) | 02 C OBSERVED (DATE: | _) 🗆 | POTENTIAL | □ ALLEGED . |
| | NIA | | | |
| 01 ☐ L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION | 02 - OBSERVED (DATE: | _) _ | POTENTIAL | ☐ ALLEGED |
| | NIA | | | |
| 01 M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/stahding Asudia/lealing drums) 03 POPULATION POTENTIALLY AFFECTED: | 02 [] OBSERVED (DATE: | _) 0 | POTENTIAL | ☐ ALLEGED |
| | NIA | | | |
| 01 IN. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION | 02 C OBSERVED (DATE: | _) 🗆 : | POTENTIAL | □ ALLEGED |
| | NIA | | | |
| 01 [] O. CONTAMINATION OF SEWERS, STORM DRAINS 04 NARRATIVE DESCRIPTION | 6, WWTPs 02 OBSERVED (DATE: | _) 🗆 (| POTENTIAL | □ ALLEGED |
| | NA | | | |
| 01 [] P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION | 02 OBSERVED (DATE: | _) 01 | POTENTIAL | ☐ ALLEGED |
| | NIA | | | - |
| 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, | OR ALLEGED HAZARDS | | | |
| • | N/A | | | |
| III. TOTAL POPULATION POTENTIALLY AFFECTED | · P/A | | | |
| IV. COMMENTS | | | | |
| Prior to september 23, 1982, this fa Facility permit application. This accompage to the permit application. This accompage to the permit of th | cility was regulated by part'n" of unto for their inclusion on the Elints acting under RCRA phase I Interior their major of hoperdays was to | the F RIS list m Autho which w | ederal Haz On this orization, used and gualif | andows whaste hate the withdraw their y ese facility |
| V. SOURCES OF INFORMATION (Che apacific references, a. | g., stare files. sample analysis. reports/ | | | |
| KYNREPC'S Division of w | aste Management Kiles | | · | |

| sit | : 11:11: Simmons Casket Company (York Casket Co.) | | |
|------|---|-------------|----|
| Cit | y Lancaster State Ky | | |
| Fac | ility I.D. Number <u>KYD050074889</u> | | |
| Турч | of Facility: Generator Transporter | TSD | |
| I. | KCIM APPLICABILLTY | yes | co |
| | Does the facility have RCRA interim status? | · | |
| | Does the facility have a final or post-closure permit? If so, date issued | | |
| | Is the facility a non-notifier that has been identified by States or EPA? | | |
| | Is the facility a known or possible protective filer? | , | |
| | Have RCRA wastes been stored onsite for longer than 90 days since November 19, 1980? | | |
| | Have RCWA wastes been disposed onsite since November 19, 1980? | | |
| | STOP HERE IF ALL ANSWERS TO QUESTIONS IN SECTION I | CH BW | |
| II. | FINANCIAL STATUS | yes | no |
| | Is the facility owned by an entity that has filed for bankmuptcy under federal laws (Chapter 7 or 11), or State laws? | | · |
| | If yes, what has it filed under? | | |
| | Chapter 7 Chapter 11 Other | | |
| | | | |





MARTHA LAYNE COLLINS GOVERNOR

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA 18 REILLY ROAD FRANKFORT, KENTUCKY 40601

Division of Waste Management

MEMORANDUM

TO:

Carl Schroeder, Manager

Field Office Branch

FROM:

Hannah Leonard, Supervisor

Frankfort Field Office

DATE:

August 14, 1984

SUBJECT: York Casket Company

(Garrard County)

Attached is a copy of the last manifest for York Casket Company in Lancaster, indicating all hazardous wastes have been shipped off-site. On August 13, 1984, Rnady Carrier, Garrard County Health Department and I visited the facility to make sure the facility had been properly closed.

We found approximately 30 drums still sitting on the loading The drums of hazardous waste had been removed as indicated dock. by the manifest. According to plant personnel the remaining drums contained paints and laquers to be shipped to a York Casket facility in Missouri. A follow-up inspection will be made at a later time to ensure that no drums are left on-site.

HL/blp

| HAZA | RDOU | JS WAS | STE MANIFES | T | • | | | £ | Corre | 40 | |
|--|---|---|--|--|---|---|--|---|--|--|-------------------------------------|
| | | | | | | | | MANIF | EST DOCUMENT | NUMBE | R |
| • | | | out Line | e C | 0 | | | | SHIPPER NUMBI | ER . | |
| | | | NAME OF CARRIER | | | | (SCAC) | C | ARRIER NUMBE | R | |
| | | | T | | CATION | | | | | | E SHIPPED |
| | 12 DIGI | T EPA ID # | | OMPANY N | | ADDRESS, AND | | MBER | : -2101 | | RECEIVED |
| ERATORI IPPER | 100500 | 27/18/9 | 1/4:1- Cost | <u>t</u> | | ×1203 | former | T. 221 | 16 | 5- | 17:1 |
| HANSPORTER # 1 | ውላ _ራ ን፤ | 550017 | Bil Somie | <u>Co</u> | | | noly. | Or | 7 2) | 5-1 | 7-29 |
| (RANSPORTER # 2 (M required) | · ! | | , | · • | · · | | | | · . | | |
| TSDF TREATMENT STORAGE OR DIS— POSAL FACILITY | 13 0007 | 180403 | Rochained & | 27 (* 2 (2) | 1 luc | ルルた、 | Care | 317.8 . 1041.19. | 25-7101 | | |
| TSDF TREATMENT STORAGE OR DIS— POSAL FACILITY | | | | | ٠. . | | | <u> </u> | , | | |
| | | | W | ASTE IN | FORMAT | ION | | | | | |
| O. OF UNITS A CONTAINER TYPE | EPA HAZ. WASTE ID # | (Pro | RIPTION AND CLASSIFICATION per Shipping Name, Class and n Number per 172.101, 172.202, 1 | · · · • • | UH # OF A NA & | EXEMPTION OR NO LABELS REQUIRED | FLASH POINT (IN °C) WHEN REQ'D | UNITS WT/VOL | TOTAL | RATE | CHARGES (For Carrie Use Only) |
| A DRAMS | D-001 | | E SPENT Solu | | NA 1993 | | <i>,</i> . | - | i sa b | 13 | . , |
| | | | THE STEEL STOPE | ID | | 16. | سو | | HW 12 | | |
| SPECIAL HANDLI | NG INSTR | UCTIONS | noo" | | • | must b | e promptly report 202-426-2675 (10) | ted to the Fede | lerway or adjoining trat government at OT Hazardous Mater per's telephone nu | 1-800-424-0 | 8802 (toll |
| COMMENTS On "Collect on Delive | ry" shipmer | nts, the letters | "COD" must appear before | consignee' | s name or a | | | | PLACARD Yes 12 | SJEN | |
| REMIT C.O.D. TO: ADDRESS | | | ., | | COD | | Amt: \$ | | C.O.D. FEE: PREPAID COLLECT | \$ | |
| Note—Where the rate is degree required to state specifical declared value of the property. The agreed or declared value specifically stated by the philosophical stated by the philosophical stated by the ships | "If the shipment moves between a carrier by water, the law requi- bill of lading shall state wh "carrier's or shipper's weight." | ires that the | following statement | | | | CHARGES: \$ | | | | |
| Bill of Lading, the and condition of indicated above as meaning any to its usu | e property dea of contents of which said carr person or corpo ual place of de | cribéd above in ap E-packages unkni ner (the word cart oration in possess tivery at said dest | aritts in affect on the date of the is operant good order, except as noted with), marked, consigned, and di ier being understood throughout the ion of the property under the contri- ination, if on its route, otherwise to its mutually agreed as to each carr | d (contents estined as its contract act) agrees o deliver to | any time shall be: the date Shippe the gove | aid property over all interested in all o subject to all the bi of shipment in hereby certifies t | r any said propert Il of lading terms that he is familiar in and the said ter | ly, that every ser and conditions if with all the bill o rms and condition | right's checked stination and as to ex- vice to be performed in the governing class if fading ferms and co ins are hereby agree | I hereunde ification or inditions in | |
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HL/blp

MENCHANOUM

TO:

Cantel R. Dolan, Chief

razardous Material Management Section

FROM:

Leslie A. Moberly, Environmental Specialist

Hazardous Material Management Section $3/\gamma\gamma$

DATE:

March 26, 1979

SUBJECT: Hot Line Complaint, Garrard County, National Casket.

On March 20, 1979, I met with Joe Shore, plant manager for National Casket. The purpose of this visit was to discuss a hot Line complaint concerning the disposal of National Casket's waste paint sludge and solvents.

According to Mr. Shore their paint sludge is picked up and disposed of by Stephen's Disposal Company. I verified this information with Hal Stephens who explained that they take the paint sludge to the Garrard County landfill. National Casket is now in the process of completing the special permission/analysis form for the paint sludge.

National Casket's waste solvents, mainly Toluene, are picked up by the George Whitesides Company. I verified this information with the George Whitesides Company.

I contacted the individual who made the complaint and explained the results of my investigation. I would like to note that this individual would like to remain anonymous to the company in question.

LAM:jlc

| DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION OF THE PROPERTY OF CONDUNICATIONS AND COMMUNICATIONS AND COMMUNIC |
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| 13 19-253 Dece 3/5/19 Division Referrals 1. HICWING |
| 2:10pm |
| Problem/ From = Casket Many facturing Co. is secret |
| And (Housely) it sally disposing of various print + Lacquer mot Will not say where they are disposing of waste. LOCATION: How 39 - South Language, Ky. DATE OF OCCURENCE PAST WEAT |
| Will not say where they are disposing of waste. |
| LOCATION: Hwy 39 - South Lancaster, Ry. |
| OCCURENCE PAST YCAT |
| CONSTENTS: CAller is a city councilman and said the come |
| WAS illerally disposing of waste at the Standford Landfill |
| until They were cought last year - now no one knows |
| where they are shipping it or you! - year mg= |
| MOET: LArry Kelly PHONE (Uds) 792 4116 COUNTY GARRAND CO. |
| ADDRESS: 110 Drawood Drive CITY ANGASTER STATE Ky ZIP KO444 |
| OTHLAS CONTACTED: |
| OTHERS CONTACTED: CALL in Ausborgo to Apris pressent. 37/4/29 Doncy Duncan SIGNATURE |
| Dolar Dancy Eduncar |
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| TO BE COMPLETED BY LIAISON: |
| DIVISION STATUS |
| ACTION TAKEN: |
| PERSONAL |
| CONTACTED CALLER BY LETTER . INTERVIEW PHONE DATE: |
| ACTION PENDING |
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| REFERRIT TO STATE MERARIMENT/STATSTON |
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MEMORANDUM

T0:

Jack E. McClure, Jr., Acting Chief Hazardous Material Management Section

FROM:

Leslie Wilson, Environmental Specialist I Hazardous Material Management Section

DATE:

June 19, 1978

SUBJECT: National Casket in Lancaster, Kentucky

On June 6, 1978, I met with Joe Shore, Purchasing Agent, for National Casket in Lancaster, Kentucky to discuss their present paint sludge disposal practices.

National Casket produces waste composed mostly of paper and wood. They also dispose of paint sludge, waste paint and solvents. Their waste paint and solvents are presently sent to Inland Chemical Corporation for recycling. Their paint sludges are compacted in a 40 yard compactor along with their non-hazardous waste material. Their waste is hauled away by Steven's Disposal in Danville, Kentucky to the landfill in Lancaster, Kentucky.

I have requested that National Casket complete our analysis form for their paint sludge. They dispose of approximately two (2) 55 gallon drums a week.

LW:cjg

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C. Frank Harsher, III 根本代表用表用表用表更新的 Secretary



IULIAN M. CARROLL Governor

COMMONWEALTH OF KENTUCKY

DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION BUREAU OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS MATERIAL AND WASTE MANAGEMENT

PINE HILL PLAZA 1121 LOUISVILLE ROAD FRANKFORT, KENTUCKY 40601

November 27, 1979

130° 00° 00°

National Casket Company Box 42, Industry Road Lancaster, Kentucky 40444

Attn: Mr. Ron Milburn

Dear Mr. Milburn:

Kentucky's present regulatory program does not permit the disposal of any hazardous waste at other than a permitted hazardous waste management facility. Further, Kentucky does not presently have a permitted chemical landfill.

The Department's special permission system is designed to screen out all hazardous wastes and permit only identifably non-hazardous material to be disposed of in landfills in the Commonwealth.

We have reviewed the leachate test results of your paint sludge. The high concentrations lead (PB) in your companys waste resulted in it being categorized as hazardous. This determination was made by applying the definitions contained in the proposed Federal Hazardous Waste Regulations (Federal Register, December 18, 1978, p. 58946 et. seq.) and Kentucky Hazardous Waste Regulations and Guidelines.

If you have any questions concerning alternative disposal techniques, out-of-state disposal facilities, or additional information on the special permission request rejection, please feel free to call. A member of our field staff will call on you shortly to discuss potential disposal alternatives.

Sincerely,

Roger Blair, Director

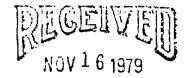
Division of Hazardous Material &

Waste Management

- cc: Pat Haight, Manager Leslie Moberly, Supervisor John Brooks, Enforcement



A DIVISION OF WALCO NATIONAL CORPORATION



DIV. OF HAZARDOUS MATERIAL AND WASTE MANAGEMENT

November 15, 1979

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Department for Natural Resources and Environmental Protection Bureau of Environmental Protection Division of Hazardous Material Frankfort, KY 40601

ATTENTION: Ms. Leslie Moberly, Environmental Specialist

Dear Ms. Moberly,

We are enclosing the laboratory test results of the paint sludge.

The tests were performed by T.M. Regan, Inc.

We received the results promptly and the chemist, W.T. Hummil was very helpful.

We would appreciate hearing from you regarding the disposal of the paint sludge as we have not shipped any to the landfill as you requested.

Thank you for your help.

Sincerely yours

Joseph Shore Purchasing Agent

cc Mr. Jim Dinsmore, Plant Engineer Mr. Frank Madden, Material Manager

enc.

ABURET E FEFCHI

T.M. FEBAN, INC.

377 FALLER AVENUE

LEXINGTON, HENTUCKY 40504

Telephone (606) 254-3831

| AMPLE NO. 1 - 2.7) | | SAMPLE RECEIVED | |
|-------------------------|---------------------------|-------------------------|---|
| YFE SAMPLE | DATE | OF REPORT | |
| ESULTS: | | | |
| | <u>#1</u> | <u> 1/2</u> | |
| % Total Solids: | 33., | - | |
| Total Dissolved Solids: | 3/A | - | |
| w Total Acidity: | N/A | - | • |
| A local Admalimity: | 8.1% as $CaCO_3$ | - | |
| Flash Point: | >200°F | | |
| p.i: | 12.60 | - | |
| Arsanie: | 4.04 րը/քե | 0.001 mg/L | |
| Coded in: | 2.77 με/gii | 0.013 mg/L | |
| Chronium: | 111 րե/չա | <0.009 mg/L | |
| Cyanide: | 39.6 µg/gm | - | |
| Copper: | 359 µg/gm | 5.20 mg/L | |
| Mercury: | 18.9 pg/gm | 0.009 mg/L | |
| Michel: | 111 jug/gm | 0.110 mg/L | |
| Load: | انو/ _{ایا} 4-113 | 9/10/12/2 | |
| 2inc: | 109 Jug/ gra | 0.920 m _t /L | |
| Phenols: | 22.4 µs/sa | - | |

2. Analyses per Standard Methods - latest revision (unless noted).

4. Quality control program maintained in accordance with U.S. Environmental Protection Agency regulations and guidelines.

T.M. REGAN, INC.

By

REMARKS: 1. Laboratory and personnel certified by Commonwealth of Kentucky, Department for Natural Resources and Environmental Protection for compliance with the National Primary Drinking Water Regulations, and for the testing of soil and minespoils. Laboratory Identification No. 00028.

On samples made and/or furnished by the client, the date of sample taking and the date sample received are the same unless otherwise known and noted.

KENTUCKY DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS MATERIAL AND WASTE MANAGEMENT

Application for Permission to Dispose

Application for Permission to Dispose of Special and/or Hazardous Waste at a Permitted Disposal Site

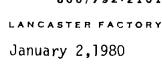
| FOR AGENCY US | SE |
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| Received_ | |
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| Issued | |
| Expires | |
| Site No. | |
| Approved | |

| GENERAL INFORMATION | | |
|--|---------------------------------|--|
| A. Disposal Site: | Lancaster City | Landfill 040.00 |
| | (name) | (site no.) |
| | Garrard | Lancaster, Ky. |
| | (county) | (location) |
| В. | Waste Hauler Mr. Hal Stever | ns |
| Co. Name/Indiv. Nam Street: Box 9 | stevens Dispos | sal Service National Casket Company |
| Street: BOX 9 | 21 | |
| City, State: Danvi Telephone: 606 2 | 36 7700 | Lancaster, Ky. 40444 606 792 2101 |
| Driver's Name: Herb | | Person in Charge: Otto Terry |
| WASTE CHARACTERISTIC | CS . | #111-D Paint Sludge 5% **Y-BCK 95% **Output **Description |
| '. Waste is: . | ste Name: Paint Liquid , Sol | Sludge, Paper, Fabrics, Miscellaneous Lid, Semi-Solid x _, Other (check one) 38 gallons or Cubic Yardsx per year. |
| C. Properties l. Acidity-Alka | alinity: | High Moderate _x Low None As: HCL H ₂ SO ₄ HNO ₃ NaOH NH ₄ OH Other (list) 1.14% as CaCo 3 |
| 2. Volatility: | | High Moderate Low _X None |
| 3. Toxicity (de | ermal): | High Moderate Low _X None i |
| 4. Toxicity (in | nhalation): | High Moderate Low None |
| 5. Toxicity (in | ngestion): | High Moderate X Low None |
| 6. Other (descr | ribe): | |
| | Organic | Inorganic Mixture _ (check one) by weight): |

| 3. co | | UNLESS INDICATED) (attached original analysis repor | rt). |
|--|--|---|--------------|
| | Leached D ISSOLU ED | SUSPENDED : | - |
| AS | 0.004 | Total Solids (% by Weight) 82 , | |
| Cđ | K0,002 | Total Dissolved Solids | |
| Cr | <0.003 | Acidity (%) | |
| CN | | Alkalinity (%) | _ |
| Cu | 0.02 | Flash Point (OF) | |
| Hg Ni | <u> </u> | pH . # 7.97 Alpha Radiation (pCi/1) | |
| Pb | < 0.05_ | Phenols —— | |
| Zn | 0,07 | PCBs | |
| | | | |
| Other: | 100g S+ 1600ml | desonated water stirred for hour and pH of so | ution_ |
| | • | • . | |
| taken | <u></u> | | |
| | • | | |
| HOD OF | DISPOSAL | | |
| HOD OF | DISPUSAL | , | |
| Mascc | will be pic tredect | d/neutralized prior to disposal. Yes No | _ (If |
| descri | hel: | | |
| ucber 1 | 207. | | |
| | | | |
| Ts was | te to be disposed o | of in containers? (If so, explain method): | |
| rum _ | Bag Box | Cylinder Loose (check which) | |
| rum | Bag Box disposal will be ac | Cylinder Loose (check which) ccomplished by: (check one or more) | |
| rumWaste | Bag Box disposal will be ac | Cylinder Loose (check which) ccomplished by: (check one or more) fill (co-mixed in place) | |
| Waste | Bag Box disposal will be ac rect sanitary landi jection into a comp | Cylinder Loose (check which) ccomplished by: (check one or more) fill (co-mixed in place) pleted landfill cell | |
| Waste 1. Di 2. In 3. Su | Bag Box disposal will be ac rect sanitary lands jection into a comp rface absorption in | Cylinder Loose (check which) ccomplished by: (check one or more) fill (co-mixed in place) pleted landfill cell nto a completed cell | |
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WATER CONSULTANTS
P. O. BOX 238
MADISONVILLE, KENTUCKY 42431





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Department of Natural Resources & **Environmental Protection** Pine Hill Plaza Louisville Road Frankfort, Kentucky 40601

DIV. OF HAZARDOUS MATERIAL AND WASTE MANAGEMENT

Attn: Mr. George Parker

Dear Mr. Parker:

This is simply to confirm our phone conversation of this day as regards our continuation permission to use the Lancaster, Kentucky City Landfill.

We have enclosed the following documents as regards the contents of our refuge.

- EPA Leach Test by McCoy & McCoy.
- Cover letter by McCoy & McCoy
- Application for permission to dispose of special materials.
- Letter from PPG regarding all commodities purchased from them and the lead content of same.
- Cover letter from PPG

In view of these findings Mr. Parker, we would appreciate your verbal and written approval to continue disposal of the paint sludge at your earliest possible convenience.

Thank you for your past help on this matter.

Sincerely

Frank B. Madden.

Materials Manage

FBM/bm

Enc.

cc: Mr. Nathan Buchanan - General Manager Lancaster



P. O. BOX 218 MATOR F. HOY BY 42431 PHONE 502 821 232

Custome Wine National Casket Company

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| rsenic PPB XXX (rium | | | | | |
| admium PPM | <0.002 | | | | |
| pad PPM | <0.05 | | 1 | 1 | |
| | 70.03 | | 1 | 1 | |
| | | | 1 | 1 | · · · · · · · · |
| iver PPM | | | | | . |
| nemical Oxygen Demand PPM | 82.80 | | | | |
| otal Solids % by weight | 82.60 | | | - | |
| rganies | | | 1 - | 4 | |
| Endrin Lindane | | | 1 | 1 | |
| Methoxychlor | | | 1 | 1 | · · · · · · · · · · · · · · · · · · · |
| Toxaphene | | ļ | + - | | · |
| 2, 4 · D | | | † | | |
| 2, 4, TP | | | + ** | | |
| | 0.02 | ·· | 1 | | · |
| - 1 1 | 0.09 | | · · · | | |
| lickel PPM | 0.09 | | 1. | | |
| | 1 | | 1 | 1 | 1 |

Hemarks

- 1. All analysis performed as per 13th Edition Standard Methods for Warer and Warer on Analysis unless otherwise noted.
- Jabou itory and personnel certified by Commonwealth of Kentucky Department of the art Mesono Source for Health Services for haterodogical analysis.

1 PPM 1 mg 1

n J. J. Charage

P. O. Box 238 • 85 East Noel Avenue • Madisonville, Kentucky • Phone 502-821-7375

19 December 1979.

Mr. Frank Madden National Casket Company P.O. Box 42 Lancaster, KY. 40444

Dear Mr. Madden:

Enclosed are the data for the analysis of the paint sludge we received from you dated 12 December 1979.

We performed the leach test following the EPA guidelines, i.e., a certain weight of sample is mixed with deionized water (100 g sample and 1600 ml water), stirred continously for 24 hours with the pH adjusted and maintained between 5.0 and 5.2, diluted to 2 liters at the end, filtered, and analyzed.

In effect, the stirring at a specified pH theoretically duplicated the action of nature upon this substance if it rained 72 inches over a two year period.

Your analyses in the past might differ from our data but you should be sure that the leachate was tested and not the sludge material itself. If this particular solid was analyzed directly, I have little doubt that certain metallic constituents would present themselves in greater abundance than was observed in the leachate.

If there are any questions you feel are unanswered, please call me and I will endeavor to answer them,

Sincerely

Gerald L. Chaney

Gerald L. Chaney

J. SHORE

i

- I. DIMIMORE X



PPG INDUSTRIES, INC./10800 SO. 13TH STREET/OAK CREEK, WISCONSIN 53154'AREA 414/764-6000

December 12, 1979

National Casket P. O. Box 42 Lancaster, Kentucky 40444

Attention: Mr. Nathan Buchanan, General Manager

Subject:

Lead Content of Materials Supplied

to National Casket

Dear Nate:

Attached is a list of all materials supplied to National Casket by PPG during 1979, along with the lead content as a weight percent of the nonvolatile.

From this list, it is a mystery to us where the high lead content in your paint sludge is coming from. We have received your samples from Frank Madden and these have been sent to Research & Development for analysis. I will inform you of results as soon as I receive word from our Analytical Department. If you have further questions, please advise.

Sincerely,

Tom Hundorfor T. F. Arndorfer

Project Leader

Industrial Solvent Base Coatings

kjl

Attachments

cc: T. A. Craig

C. R. Guinn W. H. English M. A. Secreto

R. Beuke

F. Madden, National Casket

Mr. Nathan Buchanan National Casket December 12, 1979 Page 2

| Code | Description | Lead | Content |
|-----------|-----------------------------|------|--------------|
| 6-256 | Vista Green Enamel | Less | Than.06% |
| 2151-96 | Trans Red Oxide Tint | H | ** ** |
| 2151-410 | Trans Yellow Oxide Tint | " | n n |
| 2150-3906 | Trans Red Oxide Tint | ** | H 11 |
| 2435-4606 | Lampblack Tint | *11 | 91 11 |
| 98267 | White Acrylic Enamel | 11 | 17 11 |
| E5234 | Gray Primer Surfacer | 11 | н ц |
| ML31709 | Blending Solvent | Ħ | 14 19 |
| ML35212 | Ebony H/S Color Coat | н | iś N |
| ML35870 | Monarch Blue Color Coat | n | н п |
| ML35871 | Colonial Bronze Color Coat | н | 0 11 |
| ML35887 | Hyacinth Dye Solution | Less | Than.05% |
| ML35893 | Platinum Color Coat | Less | Than.06% |
| ML36098 | Clear A.D. Lacquer | 11 | 10 19 |
| ML36135 | Walnut Stain | Less | Than.05% |
| ML36136 | Brown Dye Solution | Less | Than.06% |
| ML36144 | Medallion Bronze Color Coat | ** | 11 11 |
| ML36457 | Gray Primer Surfacer | н | 11 11 |
| ML36518 | Midnight Bronze Color Coat | ** | 11 11 |
| ML36587 | Clear Lacquer | 19 | и н |
| ML36588 | Clear Lo Cure Topcoat | н | # If |
| ML36639 | Lo Cure Super Enamel | u | # 11 |
| ML36640 | Non-Yellowing White | • | н н |
| ML36641 | Non-Yellowing Clear | Ħ | n 11 |
| ML36563 | Aspen White Lacquer | 11 | 11 11 |

Mr. Nathan Buchanan National Casket December 12, 1979 Page 3

| Code | Description | Lead | Content | _ |
|---------|-------------------------|------|---------|---|
| RM5485 | Aluminum Flake | Less | Than.06 | 8 |
| UC31995 | Anti-Crater Agent | Ħ | 11 11 | |
| w25058 | Lampblack Tint | 11 | п и | |
| w25059 | Phthalo Blue Tint | н | 18 11 | |
| W25061 | Phthalo Green Tint | U | n " | |
| W25068 | Trans Red Oxide Tint | Ħ | н н | |
| W25069 | Trans Yellow Oxide Tint | 11 | 11 11 | |
| W25070 | Carbon Black Tint | н | н И | |
| W25071 | Iron Blue Tint | н | n # | |
| W25073 | Bon Red | ** | 11 11 | |
| W26124 | Thio Maroon Tint | 19 | и н | |
| W26790 | Catalyst | 11 | н н | |

MEMORANDUM

TO: John Brooks, Acting Chief Enforcement Section

FROM: Marsha Swain, Public Health Rep. II $^{t_{\rm F}}$

wn

DATE: March 18, 1980

SUBJECT: Garrard County #040-00

National Casket - Lancaster KY.

On March 17, 1980, I was asked to take a compliance sample of National Casket's paint sludge due to the variation of lead and pH analysis submitted by them.

I met with Frank Madden, Materials Manager. He explained that the analysis would always be different due to the fact that their sludge came from three different processes. These processes are the Primer Coat, the Color Coat, and the Top Coat. When these holding tanks need cleaning out, the film at the top is scraped off and put in a drum. The tanks are skimmed when needed. This results in different quantities of scum from each process being deposited in the drum which results in different analyses.

I took a sample from the Primer Coat tank. I only took one sample from the Color Coat tank even though there are 2 tanks. The composition from these two tanks are the same. This was verified visually as one half of the casket is painted at one color coat tank and then the other side is painted at the other color coat tank. I then took a sample from the Top Coat tank.

It appeared that the only variation which would appear in future samples would involve the Color Coat tank, depending upon which color is sprayed on the caskets.

There was no composite sludge available for testing. Even if there had been, it would not be representative of the waste.

These samples were then dropped off to T.M. Reagan's lab in Lexington. I spoke to Thomas Hummel, Chief Chemist, about the processes and analyses. It was decided to wait until today before testing began. This is to give our Division time to discuss if we want the lead and pH run on all of them. Hannah Leonard is to contact the lab today as to procedures. There is also the possibility that we may require the company to pay for the analysis.

I offered to give half of the samples to National Casket, but they deemed it not necessary.

MS/sar

cc: Hannah Leonard

McCOY & McCOY, Inc. Environmental Consultants

P.O. BOX 238 P.O. BOX 1411 P.O. BOX 208

MADISONVILLE, KENTUCKY PADUCAH, KENTUCKY PIKEVILLE, KENTUCKY

42431 42001 41501

REPORT DATE, 10/12/81

PAGE NO. 1

| National Casket Company |
|-------------------------|
| Attn: Steve Vinson |
| P. O. Box 42 |
| Industry Road |
| Lancaster, KY 40444 |

| LOCATION NO. | SAMPLE DATE |
|----------------|------------------|
| 1 Paint Sludge | Combined 9/17/81 |
| 3 | |
| 4 | |
| 5 | |

| | Ì |
|--|---|
| | |
| | |

Remarks:

- All analysis performed as per 14th Edition Standard Methods for Water and Wastewaler Analysis unless otherwise noted.
- Laboratory and personnel certified by Commonwealth of Kentucky Department for Human Resources Bureau for Health Services for bacteriological analysis.

I PPM-1 mg/1

McCOY & McCOY, Inc. Environmental Consultants

P.O. BOX 238 P.O. BOX 1411 P.O. BOX 208

MADISONVILLE, KENTUCKY

PADUCAH, KENTUCKY PIKEVILLÉ, KENTUCKY 42431 42001 41501

REPORT DATE, 10/12/81

PAGE NO. 2

| National Casket Company |
|-------------------------|
| Attn: Steve Vinson |
| P. O. Box 42 |
| Industry Road |
| lancaster KY 40444 |

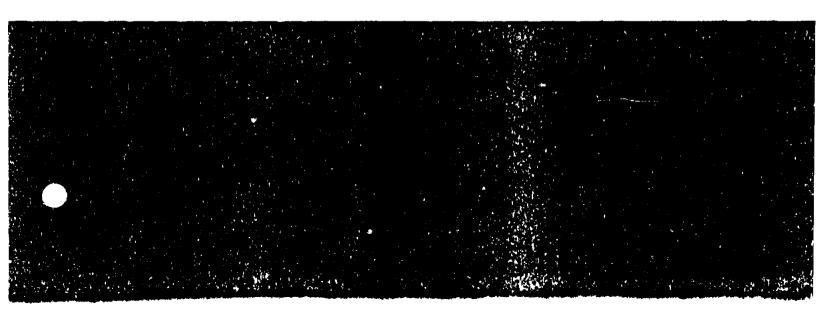
| LOCATION NO. | SAMPLE DATE |
|----------------|------------------|
| 1.Paint_Sludge | Combined 9/17/81 |
| 3 | |
| 4 5. | |
| J | |

| REPORT OF CHEMICAL ANALYSIS | | | | | | |
|-----------------------------|-------------------|----------------------|---|---|----|---|
| TEST DESC | CRIPTION | 1 | 2 | 3 | 4. | 5 |
| OPPER IICKEL INC | PPM PPM PPM | 0.01 0.95 1.03 | • | | | |

Remarks:

- All analysis performed as per 14th Edition Standard Methods for Water and Wastewater Analysis unless otherwise noted.
- Laboratory and personnel certified by Commonwealth of Kentucky Department for Human Resources Bureau for Health Services for bacteriological analysis.
- 1 PPM-1 mg/1

For McCoy & McCoy, Inc.



MEMORANDUM

T0:

Art Curtis

Chief, Plans Review Section

THROUGH:

Manager, Field Operations Branch

FROM:

Hannah Leonard

Supervisor, Frankfort Field Office

DATE:

November 12, 1981

SUBJECT: Simmons Casket Company Special Permission Disposal (Garrard County)

(formerly National Casket Company)

On January 8, 1980, Simmons Casket Company was granted special permission for the disposal of a paint sludge at the City of Lancaster Landfill #040.06 in Garrard County. Quarterly leach tests for lead were required but only recently has the analysis been specifically requested.

Attached is the most recent analysis, given to me by Steve Vinson, Industrial Engineer for Simmons, on November 4, 1981. Lead is well below the limits set for EP toxicity. There have been no problems with this waste at the landfill and I do not recommend any changes at this time.

HL:blp

cc: files

KENTUCKY DEPARTMENT FOR NATURAL RESOURCES

AND ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS MATERIALS AND WASTE MANAGEMENT

APPLICATION FOR PERMISSION TO DISPOSE OF SPECIAL AND/OR HAZARDOUS WASTE AT A PERMITTED DISPOSAL SITE

| ι | Gen | eral | Information | | | | |
|-------|-----|--------|----------------------------|------------|----------------------|------------|------------|
| | Α. | Dis | posal Site: Jancia | ter | | | |
| | | | (NAME) | | | (SITE | NO.) |
| | | | Garrard | | | | |
| | • | | (COUNTY) | | | (LOCAT | ION) |
| | В. | | Waste Haule | <u>r</u> | Waste | e Generat | <u>or</u> |
| | Co. | Name | /Individual: Simmor | 1 :5 | - 1 ⁷ - 1 | n n e | |
| | Str | eet: | Box 40 | | | 1 | |
| | Cit | y, Sta | ate: 1 3,100, 1/01 | | | , (| |
| | | | e: <u>790-2101</u> | | | . • | |
| | | | Name: Green Cla | er K | | | |
| ،۱. | | | aracteristics | • • | | | |
| • • • | | | | | | | |
| | Α. | Soui | rce (Indicate S.I.C. Indu | stry Class | sification) _ | | |
| | В. | Desc | cription (Descriptive or (| Common) | | | |
| | | 1. | Indicate Wate Name: | Paint | = 1 | <u> </u> | |
| | | 2. | Process Name: | nting | <u> </u> | | |
| | | | Expected organics in was | • | | · <u>·</u> | |
| | | 4. | Waste is: Liquid, | Solid | _, Semi-Soli | id, | Other |
| | | 5. | Expected Volume is: | Gallons _ | or Cubic | Yards _ | _ per year |
| | С. | Prop | perties | | | | • |
| | | 1. | Acidity-Alkalinity: | High | Moderate | Low | None |
| | | | | As: HCL | H2SO4 | HN03 _ | NaOH |
| | | | | | OHOther | | |
| | | 2. | Volatility: | High | _ Moderate _ | Low | None |
| | | 3. | Toxicity (dermal): | High | _ Moderate | Low | None |
| | | 4. | Toxicity (inhalation): | High | _ Moderate _ | Low | None |
| | | 5. | Toxicity (ingestion): | High | _ Moderate _ | Low | None |
| | | 6. | Radiation: | No possi | bility of ra | adiation | |
| | | 7. | Other (Describe): | | | | |

| • | Α. | Total Organic Carbon | |
|------|------|---|-------------|
| | | 1. % Total Carbon | |
| | | 2. % Total Inorganic Carbon | |
| | | 3. % TC-%TIC=%TOC= | |
| | В. | Organic Composition Analysis | |
| • | | When results indicate high % TOC, or high velocity, or low Flashpo | int |
| | | determine organics on unfiltered uncentrifuged leachate, or origina | a l |
| | | sample. | |
| | | compound concentration compound concentrated | £ |
| | | 1. PCB's 5. | |
| | | 2. Phenols 6. | |
| | | 3 7 | |
| | | 4 8 | |
| | С. | Acitivity | |
| | | When radioactive material is present in waste (see Section II, Line | e 6) |
| | | test sample for activity. | |
| | | Alpha radiation (pCi/1) | |
| | D. | Other Analyses (as specified) | |
| | | | |
| | | | |
| | | | |
| ٧11. | Sign | nature of Analyzing Chemist | |
| | ٠. | Doug Walfe | |
| | | :: 10-13-81 Telephone: <u>502-821-7375</u> | |
| | Date | :: 10-13-81 Telephone: 302-821-1313 | |

VI. Special Analyses

McCoy & McCoy, Inc. Environmental Consultants P.O. Box 238 Madisonville, Ky. 42431

NATIONAL CASKET COMPANY Combined Paint Sludge

III. Method of Disposal Waste will be pre-treated/neutralized prior to disposal. Yes No ___ Α. (If yes, describe): В. Is waste to be disposed of in containers? If so, explain method: Drum ___ Bag ___ Box __ Cylinder ___ Loose ___ (check which) Waste Disposal will be accomplished by: (Check one or more) · C. Direct sanitary landfill (co-mixed in place) _____ 2. Injection into a completed landfill cell 3. Surface absorption into a completed cell 4. Segregation to an isolated cell 5. Land Spreading/discing For land spreading, fill out Appendix A: Land Spresing, and attach to this form. 6. Buried in original container Other (describe) 7. Signature of Applicant (or Authorized Agent) Date: Telephone: REPORT ON ANALYSIS (Please Attach Original Analysis Report) Analysis results should be given in ink and signed by the individual Note: assuming responsibility for the tests. Read "Instructions" before performing tests. IV. Analysis of Leachate A. Leachage Metal Concentrations in Milligrams/Liter Ag <u>0.01</u> 6. 1. Hg 0.0052 РЬ 0.09 As < 0.005 7. 2. Ba <u>0,42</u> 8. Se 🗸 0.001 3. Cd 0.007 9. Other (as specified) See Below 4. Cr _______ 10. Total Dissolved Solids 5. Analyses on Original Sample Cu 0.01; Ni 0.95; Zn 1.03 ٧. Flashpoint (OF) ---- 5. Total Solids (% by weight) 43.5 1. pH 7.35 .6. Total Fixed Residue -----2. Cyanide _____ 7. Total Volatile Residue ----3.

Phenol ____ (TS-TFR=TVR)

4.

KENTUCKY DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT GENERATOR INSPECTION SHEET

| Facility Name SIMMONS CASKET | | Reg | istration # KYDO5-007-4889 |
|--|--|---------------------|--|
| .nty GARRAD Date 5-21-82 | Time 1:15 p | .m. | Routine (Followup () |
| Type of Operation PRINTING OFFICE | TION | | |
| A. VERIFICATION OF REGISTRATION | C NC N/A | С. | WASTE STORAGE (continued) C NC N/A |
| 1. Operations consistent with Registration B. RECORDS/MANIFESTING | (Wym (~) () | 7. | The storage of ignitable, () () (reactive or the mixture of incompatible waste is con- ducted so that it does not produce extreme heat, pres- |
| Test results and waste analysis records maintained Manifests correct/complete Manifests maintained (Generator's copy and/or returned TSD facility copy) Exception report submitted and | | 8. | sure, toxic or flammable fumes, violent reaction or damage the container's structural integrity. Storage area(s) are inspect- ed by owner/operator at least weekly by log. () () |
| maintained 5. Annual reports submitted and maintained 6. Notification of international shipments | ()()()(\boldsymbol{\psi} (\boldsymbol{\psi} (\bolds | 9. | Personnel have been trained in emergency procedures. () () (Hazardous waste storage tanks designed to prevent or contain spills. () () () |
| C. WASTE STORAGE | • | 11. | Contingency Plan Maintained at Facility * () () (|
| Containers meet DOT requirement Condition of containers Containers labeled and marked properly Beginning of waste accumulation dated Ninety (90) day accumulation Containers holding ignitable or reactive waste are located fifty feet or more from the facilities property line | (Y()() (Y()() ()(Y() (Y()() | 2. 3. 4. | a receipt given Yes No N/A |
| are and date drums are shippe | be added to rum paint t which tells ad, * Conti | hind who ngen | drum is currently gistration. Two drums of er need labels. Log needs to be en drums are placed in storage cy plan needs work. |
| I hereby acknowledge receipt of a copy o apprised of the discrepancies and allege STONED: | f this report d violations n | and d | during the inspection. |
| | | | 1 |

^{*} Explanation of inspection categories on reverse side ** C = Compliance NC = Non-Compliance N/A = Not Applicable

September 23, 1982

Mr. Steve Vinson Industrial Engineer Simmons Casket Company P.O. Box 42 Industry Road Lancaster, Kentucky 40444

RE: EPA I.D. KYD05-007-4889

Dear Mr. Vinson:

The Division of Waste Management, acting under RCRA Phase I Interim Authorization (as published in the April 1, 1981, Federal Register), is withdrawing your U.S. EPA form 3510-1 known as the Federal Hazardous Waste Facility permit application part "A". The U.S. EPA has determined that your company can terminate their interim status as a storage facility without complying with 40 CFR Part 265 Subparts G and H, provided they continue to use the area for storage of hazardous waste which will be removed within the 90 day limit and are in compliance with 40 CFR 262.34. If your company no longer intends to use the area for storage of hazardous wastes, it must be closed in accordance with 40 CFR Part 265 Subpart G and H.

If you have any questions on this, please contact James A. Determann of this office at (502) 564-6716, Ext. 248.

Sincerely,

J. Klex Barber, Director

Division of Waste Management

JAB:JAD:cg

cc: James H. Scarbrough, U.S. EPA Field Supervisor

JOHN Y. BROWN Governor

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

Division of Waste Management March 23, 1983

Mr. Steve Vinson York Casket Company (formerly Simmens Casket Co.) P.O. Box 42 Lancaster, Kentucky

Garrad Co.

Dear Mr. Vinson:

During an inspection on March 18, 1983, it was determined that wastes shipped from your facility on March 10, 1983, had been stored for more than 90 days. It is a violation of 401 KAR 32:030, Section 5(2) formerly 401 KAR 2:070, Section 3 (5)(6) to accumulate hazardous wastes for more than 90 days without a storage facility permit.

Although the problem appears to be caused by personnel changes, wastes must be shipped within 90 days. The regulations only allow the Cabinet to grant an extension of up to 30 days if there are unforseen, temporary, uncontrolled circumstances

York Casket Company will be required to obtain a permit for a hazardous waste storage facility if, in the future, we determine that additional violations of KAR 32:030, Section 5(2) exist.

If you have any questions, please feel free to contact me at (502) 564-6716-275.

Yours truly,

Hannah Leonard IMA

Hannah Leonard, Supervisor Frankfort Field Office Div. of Waste Management

HL/blp

cc: Carl Schroeder



COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601
Division of Waste Management

MEMORANDUM

TO:

Carl Schroeder, Manager

Field Operations Branch

FROM:

Hannah Leonard, Supervisor

Frankfort Field Office

DATE:

May 10, 1984

SUBJECT: York Casket Closure Inspection

(Garrard County)

On May 2, 1984 during an inspection of the City of Lancaster Landfill, I was told by the operator that the local industry, York Casket Company, had closed on April 27, 1984. Later that day, Leslie Brown and I inspected the York facility to determine if all hazardous wastes had been shipped off-site to a permitted TSDF.

No one was available to talk to us, but on-site personnel did take us out to the storage area where we found 3 drums of waste, 1,1,1-Trichloroethane and 1 drum of paint thinner. The drums were properly labeled and in good condition. The accumulation dates were well within the 90-day limit.

On May 9, 1984 I contacted Ed Doyle, plant manager, by phone. Mr. Doyle told me they were waiting until closure and clean-up of the plant was completed before shipping the wastes off-site (in case additional hazardous wastes were generated). I then asked Mr. Doyle to send me a copy of the manifest after the wastes were shipped off-site. After I receive a copy of the manifest I plan to stop by the facility and check the storage area to ensure no hazardous wastes are left on-site.

HL/blp

MAY 21 1 27 PH '84
WASTE HAMAGEHENT

CHARLOTTE E. BALDWIN
SECRETARY



MARTHA LAYNE COLLINS

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

Division of Waste Management March 11, 1985

York Casket Company P.O. Box 42 Lancaster, Kentucky 40444

Attention: Ed Doyle

Dear Mr. Doyle:

A March 1, 1935 inspection of the York Casket plant in Lancaster showed drums of waste still remain on-site. Before the Division of Waste Management can consider your site properly closed, these drums must be disposed of at a permitted disposal site.

If the wastes are nonhazardous they can go to a local permitted residential landfill. However, the material cannot go to a residential landfill without prior approval from the Division. Enclosed is an application for a permit modification to dispose of this material. If you do not have sufficient information to demonstrate the contents are nonhazardous, the drums must be sampled and analyzed to make a determination.

To avoid an enforcement action, which could result in the assessment of penalties, you must respond to this letter by no later than March 22, 1985.

If you have any questions, please feel free to contact me at (502) 564-6716-extension 275.

Yours truly,

Hannah Helm, Supervisor Frankfort Field Office Div. of Waste Management

HH/blp

cc: Carl Schroeder

Frankfort F. G.



APR 22 10 55 AH '85

RECEIVED
DIVISION OF
WASTE NAME THENT

April 17, 1985

Division of Waste Management 18 Reilly Road Frankfort, KY. 40601

ATTN: Jim Determann

Dear Mr. Determann:

Please withdrawal York Casket Co. (Garrard County) as Generator of Hazardous Waste in conjuction with the plant shutdown of May 4, 1984.

The records for the plant will be stored at George and Alloys Streets, Marshfield, MO. 65706. The person to contact would be myself.

Sincerely,

Bob Kotarba

Vice President of Operations-West

BK/dw

DIVISION OF WASTE MANAGEMENT KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION

1984 HAZARDOUS WASTE GENERATOR ANNUAL REPORT

| | FOR OFFICE USE ONLY: |
|--|---|
| STRUCTIONS: This report is to be completed by all hazardous waste Generators registere | d within the Commonwealth of Kentucky, The |
| report must be completed using the signed copies of the hazardous waste manifests retained | by the generator for the calendar year 1984. |
| Complete instructions for each information category are found on the back of this form. The re | port must be submitted to the Division of Waste |
| Management, 18 Reilly Road, Frankfort, KY 40601 by March 1, 1985. Questions may be addressed | to the Annual Report Coordinator at (502) 564- |
| 6716. | |
| | PAGEOF |
| (1) GENERATOR EPAID NUMBER: KYD050074899 | |

| (4) CONTACT PERSON: | | | 417 468-6500 |
|----------------------|-----------------------|----------------------|--------------|
| (3) GENERATOR MAILIN | G ADDRESS: INDUSTRY I | ROAD, LANCASTER, KY. | |
| | YORK CASKET CO. | | |
| • • • = · - · | NOWBEK: RADDPGGAABA | 9 | |

(6) SIC CODES: لبيا ليبا ليبا

(7) TRANSPORTATION SERVICES USED:

| PRIMARY TRANSPORTER (from the Manifest form) | NUMBER OF MANIFESTED SHIPMENTS TRANSPORTED | TOTAL QUANTITY | UNIT of volume | CONTAINER TYPES USED BY TRANSPORTER |
|--|---|----------------|----------------------|---|
| ID NUMBER: <u>INDOSESSOL9</u> NAME: OIL SERVICE CO. ADDRESS: P.O. BOX 1203 COLUMBIA, TN. | 2 | 770 | G | DM |
| ID NUMBER: [] NAME: ADDRESS: | | | | |
| NUMBER: LILITIFIEL NAME: ADDRESS: | | | SVA | ged |
| ID NUMBER: | | | RECEIV DIVISION | 22 10 5 |
| ID NUMBER: LULLLILLILLI NAME: ADDRESS: | | | OF NEO | S ** ** ** ** ** ** ** ** ** ** ** ** ** |

USE ADDITIONAL SHEETS AS NECESSARY TO IDENTIFY ALL PRIMARY TRANSPORTERS USED IN 1984.

(8) COMMENTS:

CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SUMMARY OF FACILITIES RECEIVING WASTE GE MATOR EPAID NUMBER: KYDD50074089

REPORT YEAR: 1984 PAGE___OF__

| RECEIVING FACILITY'S EPA ID NUMBER | RECEIVING FACILITY'S NAME | TOTAL NUMBER OF MANIFESTED SHIPMENTS SENT TO FACILITY | TOTAL QUANTITY OF WASTE SENT TO FACILITY | UNIT of volume |
|--|---------------------------|---|--|----------------------|
| IND000780403 | RECLAIMED ENERGY, INC. | 2 | 770 | G |
| | | | WASTE F | |
| | | | CEIVED SS | |
| | | | | |

USE ADDITIONAL SHEETS AS NECESSARY TO IDENTIFY ALL FACILITIES WHICH RECEIVED WASTE FROM THE GENERATOR IN 1984.

| WASTE ! | MINIMIZAT | TION STATEMENT |
|---------|-----------|--|
| ☐ YES | □NO | In 1984, did your company have a program in place to reduce the volume or quantity and toxicity of your hazardous waste? |
| | | • If Yes, describe the program briefly: |
| | | |
| | | |

● If No, will your company establish such a program?
☐ YES ☐ NO Are the methods of storage, treatment or disposal used by your company in 1984 the most ☐ YES □ NO practicable methods currently available to minimize the present and future threat to human health and the environment? Explain:

r/A

GENERATOR WASTE SUMMARY SHEET

GENERATOR EPAID NUMBER: EXP05.0074.899

REPORT 1 AR: 1984
Page _____of___

| MANIFEST WASTE DESCRIPTION | EPA WASTE DESCRIPTION | TOTAL QUANTITY | UNIT of vol. | PHYSICAL STATE | EPA WASTE NUMBER(S) | HANDLING CODES | ON-SITE | RECEIVING FACILITY'S EPA ID NUMBER |
|---|--|-------------------|--------------------|-------------------|---------------------------|-------------------|---------|--|
| WASTE SPENT SOLVENT FLAMMABLE LIQUID | WASTE SPENT SOLVENT CONTAINING PLINTIABLE | 770 | G | | D-001 | S 01 T 54 D | | <u> </u> |
| | | | | | | S T D | | التستستا |
| | | | | | | S T D | | لسسسسا |
| | · | | | | | S T D | | لتتتيينيا |
| | | | | | | S T D_ | | ليسيسسا |
| | | | | | | S T D | | ليتنينينا |
| | , | | | | | S T D | | لسسسسا |
| | | | | | | S T D | | ليسيسيا |
| | MASTE MY | | | | | S T D | | لىسىسا |
| | PIVISION OF SECENTED | | | | | S T D | | لسسسا |
| | 28" MA 22 01 SS 89 | | | | • | S T D | | ليبسسا |

July 22, 1985

Mr. Carl H. Tiedt Hallmark Casket Co. P.O. Drawer G Marshfield, MO. 65706

RE: York Casket - EPA I.D. KYD05-007-4889 - Garrard Co.

Dear Mr. Tiedt:

This letter is in response to your April 10, 1985, letter requesting a change in your generator status for your Kentucky site. We have reviewed your request and concur with your determination. Therefore, we are changing your generator status to that of closed. We will retain your EPA Identification Number and if at some time in the future your site becomes a hazardous waste generator it will only be necessary for you to register that activity with this office.

If you have any questions, please feel free to contact James Determann of this office at (502) 564-6716, Ext. 231.

Sincerely,

Cddad con

Caroline Patrick Haight Manager, Permit Review Branch Division of Waste Management

CPH:JAD:cg

cc: Hannah Helm, Area Supervisor Ann Cole, U.S. EPA Region IV Tim Hockensmith, Revenue Cabinet



COMMONWEALTH OF KENTUCKY NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION FRANKFORT OFFICE PARK 18 REILLY ROAD FRANKFORT, KENTUCKY 40601

Division of Waste Management February 6, 1989

Mr. L.G. Osborne Allison Abrasives, Inc. P.O. Box 192 163 Industry Road Lancaster, Kentucky 40444

Der Mr. Osborne:

After reviewing the MSD sheets and discussing your waste with the Division's Solid Waste Branch, an analyses of the waste is required. Please complete the new "Application to Accept an Additional Waste Stream" enclosed by following the instructions attached. The Division is in receipt of your \$50.00 application fee so disregard section D of the application. If you have any questions, please contact me at (502) 564-6716.

1.25.89

Jy 1.27.89

Sincerely,

C. Brad Lyon Acting Supervisor

Frankfort Regional Office

CKNO. 17973 - 950.00

Allison ABRASIVES, INC.

*Quality Abrasive Cut-Off Whoms Since 1919

3 Industry Road, Box 192 Lancaster, Kentucky 40444 (606) 792-3033 • Telex 93-9031

January 22, 1988

Mr. Shelby Jett Manager, Solid Waste Branch Division of Waste Management 18 Reilly Road Frankfort, KY 40601

Gentlemen:

This letter is in regard to the scrap material generated from our manufacturing operation in Lancaster, Kentucky. The Stevens Bros. Disposal Service of Danville is removing this material and request information regarding its non-toxic nature.

Reference to the MSDS for the raw materials used indicates that certain of these materials have been determined to be toxic by standards included in the OSHA Right-To-Know Legislation.

These materials fall into two categories:

- 1) Abrasives and fillers used that may be toxic if TLV levels are exceeded in the workplace.
- 2) Phenolic Resins that when uncured contain small quantities of phenol or formaldehyde.

Processing of these materials into finished products produces scrap wherein the nature of the raw materials has been materially altered:

- 1) Abrasives and fillers become incapsulated in a phenolic resin bond that eliminates any dust hazard.
- 2) Phenolic Resins used are cured by heat that eliminates phenol or formaldehyde contaminants.

Should there be some dust in the scrap material, it would seem unlikely that this would pose any problems when disposal is accomplished in an outside land fill.

If there are any questions, please contact us at our Lancaster location.

Very Truly Yours,

Lien Com Acts -

Manager, Research & Development

AVS/bkm

cc: D. A. Farmer Ray Williams

APPLICATION OR DISPOSAL PERMIT MODIFIC. JON OF SPECIAL OR INDUSTRIAL WASTE

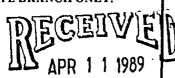
| Part I: | Generator, Waste, and Disposal Information | | | | | | |
|-----------------|--|--|--|--|--|--|--|
| ₎ А. | Generator Name: Allison Abrasives, Incorporated | | | | | | |
| | Address: 163 Industry Road, Lancaster, KY 40444 | | | | | | |
| | Phone: (606)792-3033 County: Garrard | | | | | | |
| В. | Hauler Name: Hal-Co Sanitation | | | | | | |
| | Address: Danville, KY 40422 Phone: (606)236-7700 | | | | | | |
| c. | Disposal Site Name: Tri-K Landfill | | | | | | |
| | Permit #: 069.04 County: Lincoln | | | | | | |
| D. | Waste Information Process waste generated from abrasive 1. Waste Name: cut-off wheel manufacturing | | | | | | |
| • | 2. Waste Process: | | | | | | |
| , es i | 3. Waste State: Solid Semi-Solid Liquid | | | | | | |
| | 4. Waste Amount: | | | | | | |
| e. | Gallons | | | | | | |
| | ©1500 Cubic Yards | | | | | | |
| | 55-gal.drums | | | | | | |
| E. | Disposal Information | | | | | | |
| | Waste Pretreatment: ☐ None All raw material waste are cured at 350°F [X] (Description) to drive off free contaminants | | | | | | |
| | 2. Type of Container: | | | | | | |
| | ☑Metal Drum ☑ Fiber Drum ☑ Plastic Bag ☐ Paper Bag ☑ Loose | | | | | | |
| | Other | | | | | | |
| | 3. Disposal Method: | | | | | | |
| | ☐ Buried in container | | | | | | |
| - | | | | | | | |
| F. | Certification | | | | | | |
| | I certify that the above is true and correct. | | | | | | |
| ••. •• | L. G. Osborne, Plant Manager | | | | | | |
| | Signature of Authorized Agent and Title | | | | | | |
| | January 25, 1989 | | | | | | |
| | Date Date | | | | | | |

| ENERATOR: ALLISON ABRASIVES, INC. PAGE 4 OF 4 |
|--|
| ASTENAME: WASTE GENERATED FROM ABRASIVE GRAINS DATE: 5/24/89 |
| V. DIVISION OF WASTE MANAGEMENT FINAL DETERMINATION |
| A. GENERAL INFORMATION: 1. Landfill Name: TRI-K LANDFILL 2. County: LINCOLN 3. Landfill Permit #: 069.04 4. Expires: 9-30-90 B. APROVAL: On behalf of the Director of the Division of Waste Management, Department for Environmental Protection, Natural Resources and Environmental Protection Cabinet, the Division modifies the landfill permit cited in Section IVA of this application to allow disposal of the waste described herein. The Division reserves the right to modify or revoke this approval. This approval is invalid in the absence of a valid permit.or if disposal is not in accordance with description herein or conditions described below. |
| Date: May 24, 1989 Solid Waste Branch Manager Division of Waste Management C. DENIAL: On behalf of the Director of the Division of Waste Management, Department for Environmental Protection, Natural Resources and Environmental Protection Cabinet, the Division of Waste Management rejects this application for the reason(s) stated below: |
| |
| |
| |
| Date: Solid Waste Branch Manager Division of Waste Management |

RUSH

Title: Plant Manager

SOLID WASTE BRANCH ONLY:



Name of Authorized Agent (typed or printed):

COMMONWEALTH OF KENTUCKY
TURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

| FOR INTERNAL USE ONLY: Date Logged: 4-26-89 524 |
|---|
| Receipt Number: 007128 |
| Date Approved/Denied ろんりん |
| County: |

| _ | |
|--------------|--|
| | DIVISION OF WASTE MANAGEMENT SOLAFFLACAMTION TO ACCEPT AN ADDITIONAL WASTE STREAM (Prepare an individual application for each waste stream) We new the control of the cont |
| | _ I. WASTE GENERATOR INFORMATION |
| A. | GENERATOR IDENTIFICATION: |
| l. | Name: Allison Abrasives, Inc. |
| 2. | Mailing Address: Box 192, Lancaster, KY 40444 |
| 3. | Address Where Waste Generated: 163 Industry Road, Lancaster, KY 40444 |
| 4. | Contact Person: Lynn Osborne 5. Telephone: 606/792-3033 |
| | WASTE DESCRIPTION: |
| 1. | Waste Name: Process waste generated from abrasive cut-off wheel manufacture |
| | Describe source of the waste including industrial process: Waste generated from abrasive grains, |
| | fillers, and resins during the manufacture of cut-off wheels. |
| 2. | Is the waste hazardous under 401 KAR 31:010, Section 3, which includes the characteristics of 401 KAR 31:030 and the lists of 401 KAR 31:040? Yes No (If yes, contact your local Division of Waste Management Field Office |
| 3. | r further assistance. See instructions for locations and telephone numbers.) s the waste an "exempt" hazardous waste under the regulatory cites in the Instructions? Yes X No |
| | Regulatory Cite: Cured dust from |
| | Waste Condition Upon Generation: Solid Semi-solid Liquid Other dust collectors |
| 5. | Waste Treatment Description: Uncured waste material is cured by heat to drive off any free |
| | emissions. Dust emissions have been cured during manufacturing process. |
| 6. | Disposal Site Name: Tri-K Landfill 7. Permit # 069.04 |
| 3. | Waste Condition Upon Disposal: Solid Semi-solid Liquid Other Dust |
| €. | Waste Amount: 55-gal. drums or Cubic Yards (Note: 1 cubic yard = 202 gallons) |
| | Frequency: Per Month Per Year One-Time Only CONTAINER TYPE(See Instructions): |
| | Paper bag Fiber drum or cardboard box Metal or plastic drum |
| | ☐ Plastic bag ☐ Double bagged in container ☐ Other (specify) ☐ |
| D. | |
| E. | Check for \$50.00 # CK Ko 17973 SOLID WASTE GENERATOR CERTIFICATION: |
| l ce: und | rtify that the information set forth in Section I pertaining to the waste is true and correct and that the waste is not regulated as a hazardous waste er 401 KAR Chapter 31 which requires storage, treatment or disposal at a hazardous waste facility under 401 KAR Chapters 32 through 40. I stand that failure to properly manage a hazardous waste could lead to possible civil and criminal penalties under KRS Chapter 224 or the Resource wation and Recovery Act of 1976, (Public Law 94-580), as amended. |
| Si~- | Date: 3/28/89 |

Lynn Osborne

| Ži se | RVOE: Allison Abrasives 1990.20 |
|----------|--|
| VASI | ENAME: Baghouse and Kiln Waste DATE: |
| | II. LABORATORY INFORMATION |
| Α. | LABORATORY IDENTIFICATION: |
| | Laboratory Name: T.M. REGAN, INC. |
| | Mailing Address: 377 Waller Avenue, Lexington, Kentucky 40504 |
| | Contact Person: Charles E. Fouser 4. Telephone: 606-254-3831 SAMPLE COLLECTION: |
| 1. | Sampler Name: |
| 2. C. | Company:SAMPLE CONTAINER: |
| 1. | Container Type: Glass |
| 2. | Sample Type: Composite KK Grab Other (explain) |
| | Size of Container: One gallon |
| D. 1. | Preservative: NONE WASTE CHARACTERISTICS: Does the waste exhibit the characteristic of a hazardous waste as described in 401 KAR 31:030: ARACTERISTICS YES NO ANALYSIS |
| | Ignitability [] [X] - Flashpoint >140 oF |
| | Corrosivity PH 9.6 |
| | _activity |
| | EP Toxicity |
| | Is the waste characteristically hazardous? Yes Y No |
| E. | Waste passed paint filter test? N/A Yes No 4. Solids Content: NO FREE LIQUIDS LABORATORY CERTIFICATION: ertify the above results are true and correct and analyses were conducted in accordance with EPA publication SW-846 est Methods for Evaluating Solid Waste, Physical/Chemical Methods.* |
| | est Methods for Evaluating Solid Waste, Physical/Chemical Methods." Date: 3-23-89 |
| | ***ATTACH/LABORATORY RESULTS*** MATERIAL SAFETY DATA SHEET: Attached |
| | III. TRANSPORTER INFORMATION |
| A. | HAULER IDENTIFICATION: |
| 1. | Hauler Name: Hal-Co Sanitation |
| 2. | Mailing Address: 700 Dillehay Street, Danville, KY 40422 |
| 3. B. | |
| 1. | 'auler Name: |
| 2. | |
| 3. | Contact Person: 4. Telephone: |

| NERATOR: Allison Abrasives, Inc. | PAGE 3 OF |
|---|-----------------|
| ASTENAME: Baghouse and Kiln WasteDATE | : |
| IV. LANDFILL INFORMATION | |
| A. DISPOSAL SITE IDENTIFICATION: | |
| 1. Landfill Name: Tri-K Landfill 2. Permit #: 069 | .04 |
| 3. Mailing Address: 3445 Skyline Drive, Stanford, KY 40484-9437 | |
| 4. Contact Person: Dale Kirkpatrick 5. Telephone: 606, | /365-7806 |
| B. INSTRUCTIONS TO GENERATOR: | |
| 1. Time of Day Waste is to be Delivered: | |
| 2. Special handling' requirements: | |
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| 2. Commonto | |
| 3. Comments: | |
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| | |
| C. DISPOSAL METHOD: | |
| ☐ Bury in container Co-mix with garbage ☐ Bury at bottom of lift ☐ Per EPA asb | estos procedure |
| Other | |
| D. LANDFILL CERTIFICATION: I certify that I will never I fapproved, will accept the waste described in Section I at the landfill named in Section IV.A. of disposal described in Section IV.C. above. Failure to use the described, approved procedure may constitute illegal disposal under this permit modification is compatible to the above mentioned landfill operation. | |
| Signate of Authorized Agent for Landfill: Gribard Begingerige Date: 22 Name of Authorized Agent (Typed or Printed): DALE KIRILPATRICK Title: | u.28 1987 |
| Name of Authorized Agent (Typed or Printed): DALE KIRICPATRICK Title: | MHER |

173-214 QUALITY CONTROL NO.: ..



T. M. REGAN, INC.

LABORATORY SERVICES

Allison Abrasives 163 Industry Road Lancaster, Kentucky 40444

SAMPLE SOURCE

Baghouse and Kiln Waste Sample taken by client

Attn: Mr. Len Osbourne

February 14, 1989 NO. OF SAMPLES _ DATE/TIME RECEIVED: __ March 23, 1989 TYPE SAMPLE _GTAD DATE OF REPORT _

CHARACTERISTICS OF HAZARDOUS WASTE PART 261 SUBFART C

99.8 % Total Solids (% by wt) * Total Volatile Solids (by wt) 8.55 Ignitability (°F) >140 Corrosivity - pH 9.6 Nonreactive Reactivity

EXTRACT (mg/L). EP TOXICITY <0.005 Arsenic <0.05 Barium <0.01 Cadmium 0.01 Chromium 0.02 Lead <0.0005 Mercury Selenium <0.005 <0.01 S1lver

| | ***** |
|---|-----------------|
| TO: George Gilbert DEPT: Ext. 216 FAX #: | NO. OF PAGES |
| FROM: Lynn OsbornePHONE: | 1 |
| CO: Allicon Abrasives FAX #: (600) 792-3033 Post-it brand lax transmittal memo 7671 | |
| Pls call Mr. Gilbert upon receive | 0.4 |

REMARKS.

- 1. Laboratory and personnel certified by Commonwealth of Ken. 1. Laboratory and personnel certified by Commonwealth of Kentucky, Department for Natural Resources and Environmental Protection for compliance with the National Permany Drinking Warer Regulations, and for the testing of soil and minespells. Laboratory Identification No. 00028.

 2. Analyses per Standard Molhods — latest revision or EPA Methods, March 1979, or ASTM latest edition.

 3. On campies made and/or furnished by the client, the date of annual solution and the same reductions.
- samply taking and the date sample received are the same unless otherwise known and noted.
- 4. Quality control program maintained in accordance with U.S.
- Environmental Protection Agency regulations and guidelines.
 5. Inquiries about this report should include your quality control

CODES USED

N/A — considered but non-applicable (-) or blan- - not analyzed - information provided by client. On Site - information determined at sampling site mgzL -- milligrams per liter < - legs than

- prester than Certified Chemist

377 Waller Avenue Lexington, Kentucky 40504-2968 (606) 254-3831



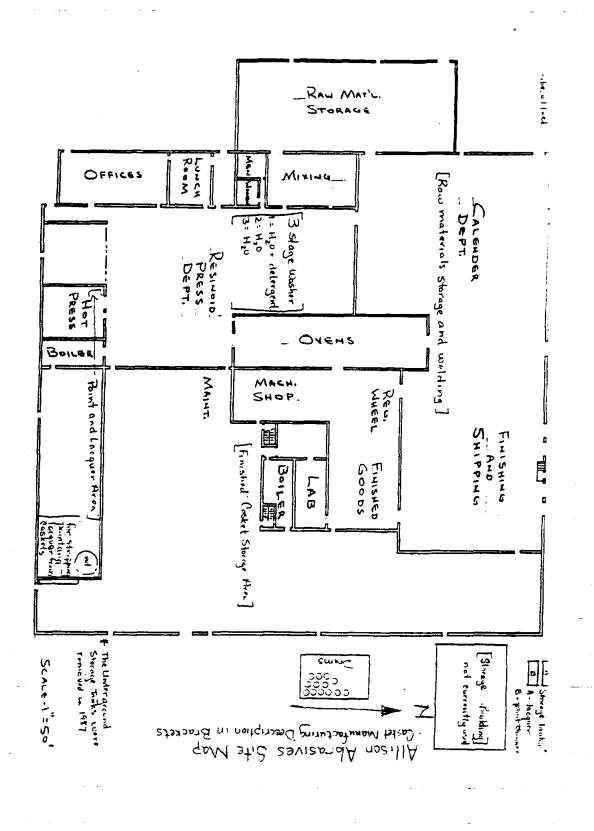
Simmons Casket Company

On October 27, 1989, Randy Thomas and I conducted a preliminary assessment Site visit at the former Simmons Casket Company site (now called allusin abrasere. We were shown arrowed the facility by Lyn Octor and an employee who also head worked for the Semmons Company.

The site had been renovated by allison abrasines who now produces abrasine wheels at the facility.

Bruef History of Mi Site: 1. Operations ceased in 1984 2. In 1987 the sete was sold to allion abrasines and renovated. 3. October 1987 - operations began again.

On the last side of the facility leaking drawns and stained sail was discovered.





APPENDIX C
WEATHER DATA FROM SELECTED LOCAL AND DISTANT STATIONS

| MEAN | RICHMOND | LANCASTER | LEXINGTON | LOUISVILLE | COLUMBUS | CLEVELAND | CHICAGO |
|---------------|----------|-----------|-----------|------------|----------|-----------|--------------|
| remperatures | KY. | KY. | KY. | KY. | OHIO | OHIO | ILL |
| Jahuary | 36.6 | 34.2 | 34.5 | 34.9 | 30.1 | 29.8 | 27 .7 |
| February | 37.6 | 36.9 | 35.8 | 37.2 | 27.7 | 25.5 | 28.8 |
| March | 44.7 | 44.7 | 43.2 | 45.6 | 41.1 | 37.1 | 33.7 |
| April | 55.5 | 55.7 | 54.4 | 56.0 | 53.6 | 48.8 | 49.1 |
| May | 64.9 | 64.6 | 64.5 | 65.3 | 63.4 | 60.7 | 62.7 |
| June | 73.1 | 72.5 | 73.6 | 74.2 | 74.4 | 72.2 | 69.0 |
| July | 76.3 | 75.4 | 77.4 | 77.9 | 74.4 | 72.2 | 72.1 |
| August | 75.4 | 74.5 | 76.0 | 76.1 | 76.2 | 67.5 | 67.7 |
| September - | 69.8 | 68.7 | 69.3 | 70.2 | 65.0 | 63.5 | 63.3 |
| October | 59.1· | 58.2 | 58.1 | 58.6 | 51.1 | 49.2 | 48.0 |
| November | 46.0 | 45.6 | 44.7 | 45.7 | 45.1 | 44.2 | 41.4 |
| December | 37.6 | 36.6 | 35.9 | 36.9 | 33.9 | 32.2 | 24.7 |
| PRECIPITATION | 1 | | | · | | | |
| | <u> </u> | | | | | | |
| January | 5.05 | 4.28 | 4.94 | 4.10 | 1.82 | 1.45 | 1.08 |
| February | 3.98 | 4.06 | 3.42 | 2.99 | 1.68 | 1.49 | 0.52 |
| March | 4.91 | 4.98 | 4.75 | 4.67 | 9.59 | 5.21 | 3.45 |
| April | 3.96 | 3.95 | 4.04 | 4.01 | 6.36 | 4.87 | 5.22 |
| May | 3.86 | 4.09 | 3.85 | 3.93 | 1.95 | 2.06 | 2.26 |
| June | 4.83 | 4.74 | 4.72 | 4.06 | 5.71 | 2.06 | 2.86 |
| July | 5.14 | 4.84 | 3.98 | 3.08 | 2.97 | 3.37 | 4.23 |
| August | 4.09 | 3.53 | 3.21 | 3.06 | 3.19 | 3.82 | 1.95 |
| September | 2.95 | 3.12 | 2.80 | 2.70 | 1.66 | 0.74 | 3.95 |
| October | 2.11 | 1.89 | 2.28 | 2.45 | 0.38 | 0.78 | 0.16 |
| November | 3.42 | 3.44 | 3.29 | 3.12 | 1.81 | 0.92 | 2.90 |
| December | 3.60 | 3.48 | 3.45 | 3.30 | 4.09 | 2.67 | 1.51 |

3.86



MLRA(S): 121, 126, 128 RFV. GFK. 6-79

REGIONAL INTERPRETATIONS

LOWELL SERIES

TYPIC HAPLUDALFS. FINE. MIXED. MESIC THE LOWELL SERIES CONSISTS OF DEEP+ WELL DRAINED SOILS ON UPLANDS. THEY FORMED IN RESIDULM OF INTERBEDDED LIMESTONE AND CALCAREOUS SHALE AND SILTSTONE. IN A REPRESENTATIVE PROFILE+ THE SURFACE LAYER IS BROWN SILT LOAM 11 INCHES THICK. THE UPPER 30 INCHES OF SUBSOIL IS STRONG BROWN+ VERY FIRM SILTY CLAY AND CLAY. THE LOWER 12 INCHES OF SUBSOIL IS MOTTLED YELLOWISH BROWN AND LIGHT GRAY+ VERY FIRM CLAY+ MARD LIMESTONE BEDROCK IS AT 53 INCHES- SLOPES RANGE FROM 2 TO 65 PERCENT. ESTIMATED SOIL PROPERTIES (A)

FRACTIPERCE OF MATERIAL LESS ILIQUID IPLAS-DEPTHI (((N .) (UNIFILD USDA TEXTURE 0-111STL THE, CL. CL-ML TA-4 :CL 14-6. A-7 :11-23:SIC. C. SICL ICL. CH. MH 123-531C+ SIC ICH. MH. CL 0-20195-100 90-100 85-100 75-100: 45-75 120-40 DEPTHICEAY IPOIST EULKS PERMER- I AVAILABLE I SOIL I SALINITY ! SHRINK- TEROSIONIWING TORGANICE CORROSIVITY IWATER CAPACITYIREACTIONI (HHHOS/CH): (IN.): (PCT): DENSITY : BILITY | POIENTIAL | K | T | GROUPT | PCT | 1 | STEEL | CONCRETE | 1 | LOW | 1-37| 3 | - | 1-4 | HIGH | IMCDERATE | 1 | LOW | 1-37| 3 | - | 1-5-2 | 1 | HODERATE | 201 | HODERATE | SWELL IFACTORSIEROD . I MATTER ! 0-11112-2711.20-1.40 --1647--1 (INZHR) 14.5-6.5 0.6-2.0 0-11127-4011.20-1.40 : 0.6-2.0 0.18-0.23 14.5-6.5 1 111-23135-6011.30-1.60 1 0.2-2.0 0.13-0.19 MODERATE 1.281 23-53140-6011.50-1.70 : 0.2-0.6 15.1-7.9 IMODERATE 1.281 53 : FLOODING I HIGH WATER TABLE I CEMENTED PAR : BEDROCK ISUBSIDENCE INVOIPCTENT : DEPTH : KIND IMONTHS IDEPTH:HARDNESSICEPTH HARDNESSINIT.ITOTALIGRP: FROST BEDROCK ISUBSIDENCE THYDIPCTENT . LI FREQUENCY 1 CURATION IMONTHS 1 (FT) NONE 240 1 HARD _____CONSTRUCTION MATERIAL (B)__
1 2-25%: POOR-LOW STRENGTH SANIJARY FACILITIES (8). ISEPTIC TANK ! 15+%: SEVERE-PERCS SLOWLY. SLOPE 25.X: POOR-LOW STRENGTH. SLOPE ABSORPTION FIELDS : 2-7%: MCDERATE-SEEPAGE, CEPTH TO ROCK, SLOPE IMPROBABLE-EXCESS FINES SEWAGE LAGOON SAND AREAS 2-15%: SEVERE-DEPTH TO ROCK TOO CLAYEY IMPROBABLE-EXCESS FINES 15+%: SEVERE-DEPTH TO ROCK-SLOPE-TOO CLAYEY IT SANITARY LANDFILL GRAVEL (TRENCH) 1 2-15%: POOR-THIN LAYER 1 15+%: POOR-THIN LAYER SLOPE 2-AX: MODERATE-DEPTH TO ROCK 8-15x: MODERATE-DEPTH TO ROCK.SLOPE 15+x: SEVERE-SLOPE SANITARY LANDFILL TOPSOIL (AREA) 2-15%: POOR-TOO CLAYEY.HAND TO PACK YATER MANAGEMENT (8) 2-20x: MODERATE-DEPTH TO ROCK 20+x: SEVERE-SLOPE 15+%: POOR-TOO CLAYEY.HARD TO PACK.SLOPE DAILY COVER FOR 11 POND RESERVOIR ARFA BUILDING SITE DEVELOPMENT (8) 2-8x: MODERATE-DEPTH TO RUCK.TOO CLAYEY SEVERE-HARD TO PACK SHALLOW R-15%: MODERATE-DEPTH TO RCCK.TOO CLAYEY. TIEFBARKMENTS EXCAVATIONS SLCPE 11 DIKES AND 15+%: SEVERE-SLOPE LEVEES 2-8%: MODERATE-SHRINK-SWELL SEVERE-NO WATER 8-15%: MODERATE-SHRINK-SWELL+SLOPE II EXCAVATED DWELLINGS TUDHTIW 15+X: SEVERE-SLOPF PCADS BASEMENTS I LAGUIFER FED I 2-AX: MCDERATE-DEPTH TO ROCK SHRINK-SHELL I CEEP TO WATER 8-15%: MODERATE-DEPTH TO HOCK, SLOPE. DWELLINGS SHRINK-SWELL DRAINAGE BASEMENTS 15+X: SEVERE-SLOPE 2-4%: FODERATE-SHRINK-SWELL 2-3%: ERODES EASILY 4-8%: HODERATE-SHRINK-SWELL, SLOPE 11 I 3+x: SLOPE, ERCCES EASILY COMMERCIAL 8+X: SEVERE-SLOPE II IRRIGATION BUILDINGS 2-15%: SEVERE-LOW STRENGTH 2-81: ERODES EASILY 15+X: SEVERE-LOW STRENGTH-SLOPE 1 1 TEPRACES 1 8+x: SLOPE.ERCDES EASILY LOCAL ROADS AND AND II DIVERSIONS STREETS LAWNS, 1 2-8%: \$LIGHT |LANDSCAPING 1 8-15%: MODERATE-SLOPE 2-8X: ERODES EASILY GRASSED 8 . X: SLOPE . ERODES EASILY WATERWAYS 1 15+X: SEVERE-SLOPE AND GOLF FAIRWAYS

| | | | | | | | RECRE | | | Elcered | | | | | | | | |
|---------------|------------|---------------|----------------|----------------|---------|---------------|---------|--------------------------|---------------|---------|---------------|----------|---|----------------------|------------------------------|--------|------------|------------|
| | 2-8%: | | | | | | | | 1 | | | 2-6%: MI | | | • PERCS | SLOWL | . Y | |
| | 1 8-151 | | | | E .PERC | 2 2 5 6 | #LY | | 11 | | | 6+1: SE | 1 E P E - S L | OPE | | | | |
| CAMP AREAS | 1 15+%: | SEVER | E-SLO | PE | | | | | I IPLA I i | YGROUNO | S ! | | | | | | | |
| | i | | | | | | | | i | | <u> i</u> . | | | | | | | |
| | 1 5-8%: | | | | | | | | : : | | | 2-8%: SI | | | | | | |
| | ! A-15% | | | | E .PERC | S SLO | IL Y | | | PATHS | | 8-25%: 3 | | | | | | |
| PICNIC AREAS | : 15 * % : | SEVER | E-SLC | PE | | | | | : | AND | 1 | 25+1: SE | VERE-S | L 0 P E • E | RODES | EASILY | | |
| | : | | • | | | | | 1 | 1 | TRAILS | | | | | | | | |
| | 4 | CAPABI | LITY | AND | YIELÖS | PER | CRE OF | CROPS | AND | PASTURE | | IGH LEY | LIMANA | GEPENI |) | | | |
| CLAS | s - | | CAPA | \ - | : co | RN | : OA | TS S | ¥I | HEAT | 1 1 | OBACCO | I SOYB | EANS | : GRA | s s - | 1 PAS | TURE |
| DETERM | INING | : | BILI | TY | 1 | | 1 | ; | | | : | | 1 | | LEGUM | YAH 3 | ; | |
| PHAS | Ε | : | | | 1(8 | u) | : :: | U) I | () | 677 | 1 | (LBS) | 116 | U) | 1110 | (2 V | f (Al | <u>uma</u> |
| | | | NIRRI | IRR, | | | | | | | | R IIRR. | | | | | | |
| 2-6% SIL | | | 25 1 | | 110 | | 65 | | 40 | | 1290 | | 1 35 | | 4.0 | | 8.0 | |
| 4-12% SIL | | | 3E : | | 1 100 | | 1 60 | | - | | 1260 | | 1 30 | | 1 4.0 | | 1 8.0 | |
| 12-20% SIL | | | 4E 1 | | 1 85 | | 1 55 | | 3.0 | | 1230 | | : - | | 3.5 | | 7.0 | |
| 20-30% SIL | | | 6E 1 | | - | | : - | 1 1 | - | | | | 1 - | 1 | - | | 1 6.0 | |
| 2-6% SICL.SE | V ER | 1 | 3E 1 | | 1 100 | t | 1 60 | : 1 | 35 | · | 1240 | 1 0 1 | 1 30 | 1 | 1 3.5 | ! | 1 7.0 | t |
| 6-12% SICL.SE | EV ER | 1 | 46.1 | | 1 85 | : | | | 30 | 1 | 1215 | 30 I | 1 25 | 1 | 3.0 | t | 1 6.0 | 1 |
| 12-20% SICL. | SEV FR | 1 | 6E I | | - 1 | 1 | 1 - | 1 1 | - | t | : - | . 1 | : - | t | | ľ | 1 5.0 | 1 |
| 20-30% SICL . | SEV ER | 1 | 7F : | | t - | t | t - | : 1 | - | t | : - | | : - | ı | 1 - 1 | t | : - | 1 |
| 30-65% | | i | 7E : | | : - | : | : - | 1 1 | - | 1 | | | 1 - | : | - 1 | | 1 - 1 | • |
| | | : | | 1 | ı | 1 | 1 | : : | | : | : | : | : | • | ; | 1 | 1 1 | į. |
| | | 1 | 1 | ł | : | t | : | : : | | : | ! | 1 | t | 1 | ! | 1 | 1 1 | : |
| | | 1 | 1 | | L | 1 | 10001 | 1 1 | 7577 | ;;;; | ! | 1 | .1 | | L | L | 1 | i |
| CLASS | ς | ORD | ; | | | NAGENE | NT PRO | | .4FB\$. | 11775 | | OTENTIAL | PRODU | TIVIT | v 1 | | | |
| DETERM | | | | NOTE | | | | | H . 1 . | PLANT | | COPPON | | 151 | | TREES | TC PLAI | NT |
| PHASE | | | | | | | | | | CCMPEI. | | 00.70. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | IIN | | | | • • • |
| 2-15% | | | | | | | | | | | | THERN RE | D DAK | | YELI | DH-PO | PLAR | |
| 15-35% | | | | | | | | | | | | LOW-POPL | | 190 | | | HITE P | INF |
| 35+X | | | | | | | | | | | | RTLEAF F | | 160 | | TLEAF | | • |
| | | ! | 1 | _,,_ | . J.76 | | - 10111 | . 52161 | | | | GINIA PI | | 081 | | | | |
| | | • | • | | : | • | | • | i | | 1 | | - | | | OLLY | | |
| 2-15% SEV ER | | :3C | 1 SLT | GHT | LEODER | ATEIMO | DERATE | I SLIGH | IT I ! | SLIGHT | INGR | THERN RE | COAK | | IVIRO | | | |
| 15-35% SEV EF | | | | | | | | | | | | RILEAF P | | 170 | ISHOP | TLEAF | PINE | |
| 35+X SEV ER | | | | | | | | | | | | GINIA PI | | 165 | LOPL | OLLY | PINE | |
| - | | : | 1 | _ | 1 | ; | | : | 1 | | 1 | | | : | t | | | |
| | | : | 1 | 1 | : | : | | 1 | t | | 1 | | | ı | 1 | | | |
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| | | ï | | | t | 1_ | | ! | 1 | | <u> </u> | | | 1 | 1 | | | |
| | | : ! | i | | | | | MINDBRE | VKZ" | | - | | | 181 | | | | |
| | | : ! :=: | 1 | 5551 | | ;;; | | 00001 | | | | SPECI | La | | | | ге | |
| | INIG PE | | | | | | I | SPECIE | <u> </u> | ifi | | | | | | SPECI | | |
| CLASS-DEIERMI | IN:G_EE | 1 40 | NEYLO | CUST | | : 4 (| TEASTE | SPECIE RN WHIT | S PI | iE 138 | RONI | WAY SPRU | | 1301 | EASTER | N HEN | LOCK | 125 |
| | INIG PE | 1 HO | NEYLO ROPEA | CUST N BUR | RNINGB | :40 USH:15 | I EASTE | SPECIE RN WHIT HAW | | IE 138 | RON1 | WAY SPRU | ČĒ | 1301 1131 | EASTER | N HEN | LOCK | 125 111 |
| | IN'G PE | 1 HO | NEYLO ROPEA | CUST N BUR | RNINGB | :40 USH:15 | I EASTE | SPECIE RN WHIT | | IE 138 | RON1 | WAY SPRU | ČĒ | 1301 1131 18 | EASTER LAMUR H LMOCKOR | N HEN | LOCK | 125 |
| | INIG_PE | 1 HO | NEYLO ROPEA | CUST N BUR | RNINGB | :40 USH:15 | I EASTE | SPECIE RN WHIT HAW | | IE 138 | RON1 | WAY SPRU | ČĒ | 1301 1131 | EASTER AMUR H POCKOR | N HEN | LOCK | 125 111 |
| | INIG DE | 1 HO | NEYLO ROPEA | CUST N BUR | RNINGB | :40 USH:15 | I EASTE | SPECIE RN WHIT HAW | | IE 138 | RON1 | WAY SPRU | ČĒ | 1301 1131 18 1 | EASTER AMUR H POCKOR | N HEN | LOCK | 125 111 |

G

ENDANGERED. THREATENED. AND SPECIAL CONCERN SPECIES LOCATED WITHIN A 4-MILE RADIUS OF THE SIMMONS CASKET COMPANY SITE (ALIAS ALLISON ABRASIVES, INC.)

SCIENTIFIC NAME COMMON NAME STATE STATUS FEDERAL STATUS Simpschaias ambigua Salamander mussel Threatened Category 2

SOURCE: Kentucky Nature Preserve Commission, Natural Heritage Data Base, 1989, 407 Broadway, Frankfort, Kentucky.

U.S. ENVIRONMEN . PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

RUN DATÉ: 02/24/87 RUN TIME: 14:11:52

M.2 - SITE MAINTENANCE FORM

| | | * ACT | ION: _ | | |
|--|-------------------------------|---------------|-------------|-------------|------------|
| EPA ID : KYD050074889 | | | | | |
| SITE NAME: SIMMONS CASKET C | OMPANY SOL | JRCE: R * | | | - |
| STREET : US 27 S INDS BLV | /D CONG E | DIST: 05 * | | | _ |
| CITY : LANCASTER | ZIP: 404 | * | | _ | * |
| CNTY NAME: GARRARD | CNTY COE | DE : 079 * | | _ | |
| LATITUDE : 37/36/35.0 | LONGITUDE : 084/ | /34/45.0 */. | _/ | | /_/ |
| LL-SOURCE: R | LL-ACCU | IRACY: * _ | | | _ |
| SMSA : | HYDRO UNIT: 0 | 5100205 * | _ | | |
| INVENTORY IND: Y REMEDIAL | IND: Y REMOVAL IND: N FED FAC | : IND: N * _ | _ | ~ | _ |
| NPL IND: N NPL LISTING D | ATE: NPL DELISTING DATE | * _ | _/_ | _/_ | |
| SITE/SPILL IDS: | | * _ | | | |
| RPM NAME: | RPM PHONE: - | - * | | | |
| SITE CLASSIFICATION: | SITE APPROA | .cн: <u>-</u> | | | |
| DIOXIN TIER: | REG FLD1: REG | FLD2: * | - | | _ |
| RESP TERM: PENDING () | NO FURTHER ACTION () | * PENE | DING (_) | NO FURTHER | ACTION (_) |
| ENF DISP: NO VIABLE RESP (ENFORCED RESPON | | ONSE () * _ | Ξ | | |
| SITE DESCRIPTION: | | | | | |
| | | * | | | |
| | | * | | | |
| | | * | | | |
| | | * | | | |

U.S. ENVIRONMEN _ PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

£: 6
RUN DATE: 02/24/87
RUN TIME: 14:11:52

M.2 - ALIAS/ALIAS LOCATION MAINTENANCE FORM

| | | | * | ACTION: _ | | |
|-------------|------------------------|-------------------------|---|------------|---|---|
| SITE: | SIMMONS CASKET COMPANY | | | | | |
| EPA ID: | KYD050074889 | ALIAS SEQ NO: 01 | | | | |
| ALIAS NAME: | SIMMONS CASKET CO | SOURCE: R | • | | | - |
| ALIAS LOCAT | ION | | * | ACTION: _ | | |
| CONTIGUOUS | PORTION OF SITE? C | FED FAC IND: N | • | - | | _ |
| STREET : | OFF KY 39 | CONG DIST : 05 | * | | | |
| CITY : | LANCASTER | ST: KY ZIP: 40444 | * | | | |
| CNTY NAME: | GARRARD | CNTY CODE: 079 | * | | | |
| LATITUDE : | 37/37/06.0 | LONGITUDE : 084/34/30.0 | * | _/_/ | | |
| LL-SOURCE: | G | LL-ACCURACY: | * | _ | - | · |
| SMSA : | | HYDRO UNIT: 05100205 * | | _ | | * |
| ALIAS DESCR | IPTION: | | | | | |
| • | | | | - * | | |
| * | | | | - * | | |
| | ···· | | | - * | | |
| | | | | | | |

U.S. ENVIRONMEL. — PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

Æ: 7 RUN DATE: 02/24/87 RUN TIME: 14:11:52

M.2 - PROGRAM MAINTENANCE FORM

| | | | | * | ACTION: | _ | , |
|----------|---------------|-------------------|---------------|---|---------|---|-------|
| SITE: | SIMMONS CASKE | T COMPANY | | | | | |
| EPA ID: | KYD050074889 | PROGRAM CODE: HO1 | PROGRAM TYPE: | # | | | - * |
| PROGRAM | QUALIFIER: | ALIAS LINK : | | * | | _ | , |
| PROGRAM | NAME: SIT | E EVALUATION | | • | | | , |
| DESCRIPT | ION: | | | | | | |
| | | | | * | | | |
| | | | | * | | | 1 |
| | | | | * | | | |
| | | | | * | | | |

U.S. ENVIRONME). _ PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

.E: 8
RUN DATE: 02/24/87
RUN TIME: 14:11:52

M. 2 - EVENT MAINTENANCE FORM

| | | | * ACTION: _ | | |
|---------------------------------|---------------------------------|-----------------|-------------|--------------|-------------|
| SITE: SIMMON PROGRAM: SITE E | NS CASKET COMPANY Evaluation | | | | |
| EPA ID: KYDOS | 0074889 PROGRAM CODE: H01 | EVENT TYPE: DS1 | | | |
| FMS CODE: | EVENT QUALIFIER : | EVENT LEAD: E | * _ | _ | _ |
| EVENT NAME: | DISCOVERY | STATUS: | * | | _ |
| DESCRIPTION: | | | | | |
| | | | * | | |
| | | | * | | |
| | | | * | | |
| | | | * | | |
| ORIGINAL | CURRENT | ACTUAL | | | |
| START: | START: | START: | * _/_/_ | // | _/_/_ |
| COMP : | COMP : | COMP : 08/01/80 | * _/_/_ | _/_/_ | _/_/_ |
| HQ COMMENT: | | | | | |
| | | | • | | |
| RG COMMENT: | | | | | |
| | | | * | | |
| COOP AGR # | AMENDMENT # STATUS | STATE X | | | |
| | | 0 | * | | |

U.S. ENVIRONMEN. PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

RUN DATÉ: 02/24/87 RUN TIME: 14:11:52

M.2 - EVENT MAINTENANCE FORM

| | | | * ACTION: _ | | , |
|------------------------------|----------------------------------|-----------------|-------------|-------------|-------|
| SITE: SIMMO PROGRAM: SITE | DNS CASKET COMPANY EVALUATION | | | | |
| EPA ID: KYDOS | 50074889 PROGRAM CODE: H01 | EVENT TYPE: PA1 | | | |
| FMS CODE: | EVENT QUALIFIER : | EVENT LEAD: S | * - | | - * |
| EVENT NAME: | PRELIMINARY ASSESSMENT | STATUS: | • | | |
| DESCRIPTION: | | | | | |
| | | | • | | |
| | | | * | | |
| | | | * | | |
| | | | * | | |
| ORIGINAL | CURRENT | ACTUAL | | | |
| START: | START: | START: 04/01/84 | * _/_/_ | _/_/_ | _/_/ |
| COMP : | COMP : | COMP : 08/01/84 | · _/_/_ | _/_/_ | _/_/_ |
| HQ COMMENT: | | | | | |
| RG COMMENT: | | | * | | |
| | | | * | | 1 |
| COOP AGR # | AMENDMENT # STATUS | STATE % | | | |
| | | o | * | | 1 |

U.S. ENVIRONMEN . PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

RUN DATE: 02/24/87 RUN TIME: 14:11:52

M.2 - COMMENT MAINTENANCE FORM

SITE: SIMMONS CASKET COMPANY

EPA ID: KYD050074889

| EPA | ID: KYD050074889 | | | |
|-----------|-------------------------------------|---|-------|---|
| COM NO | COMMENT | | CTION | |
| 001 | NO PART A ON FILE | * | _ | • |
| | | * | | • |
| 002 | KYS000001085-PAINT THINNER WASTE WA | * | _ | • |
| | S STORED IN 55 GALLON DRUMS, | | | |
| 003 | PUMPED INTO TANK TRUCK ONCE OR TWIC | * | _ | |
| | E PER YEAR, TRANSPORTED TO A | * | | • |
| 004 | RECYCLING FACILITY TO RECLAIM THE S | * | - | |
| | OLVENTS. PAINT SLUDGE F018 | * | | * |
| 005 | RENDERED NEUTRAL AND TRANSPORTED TO | * | _ | • |
| | CITY OWNED LANDFILL. | * | | * |
| 006 | ESTIMATED 2,000 GALLONS PER YEAR. D | * | - | * |
| | ATES OF WASTE HANDLING FROM 1965 | * | | * |
| 007 | TO 1981. CONTACT: MADDEN, FRANK B. | * | _ | |
| | 606-792-2101 | * | | * |

CHARLOTTE E. BALDWIN SECRETARY



MARTHA LAYNE COLLINS

70 Jun the uctions

GOVERNOR

COMMONWEALTH OF KENTUCKY

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA 18 REILLY ROAD FRANKFORT, KENTUCKY 40601

MEMORANDUM

TO:

Caroline P. Haight, Manager

Permit Review Branch

FROM:

Barry Burrus, Chief

Uncontrolled Sites Section

SUBJECT:

Uncontrolled Site Close-out for Simmons Casket Co. Site

Garrard County

DATE:

March 21, 1984

Simmons Casket Co. (now the York Casket Co.) is a manufacturer of wooden and metal caskets. The wastes produced by this facility include solvent waste which are transported to Reclaimed Energy, Inc., Connersville, Indiana by a permitted transporter and non-hazardous paint sludge which is disposed of in a permitted landfill.

Prior to September 23, 1982, this facility was regulated by Part "A" of the Federal Hazardous Waste Facility permit application. This accounts for their inclusion on the ERRIS list. On this date the KYNREPC's Division of Waste Management, acting under RCRA Phase I Interim Authorization, withdrew their Part "A". Investigation of the Division of Waste files has determined that no problems have existed with this company's handling of hazardous waste which would qualify them as an uncontrolled site.

In consideration of the aforementioned investigation, I am recommending no further action to be taken on this site and further recommend that it be removed from the uncontrolled site list.

BB/JC/las

cc:

Hannah Leonard **Bob Prewitt**

File EPA

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

| I. IDENT | IFICATION |
|----------|----------------|
| 01 STATE | 02 SITE NUMBER |
| KУ | D050074889 |

| ⊘EFA | PART 1 - SITE INFORMA | TASSESSMENT TION AND ASSESSME | INT | KY D0500748 | 89 |
|--|---|---|--|--|-----------|
| II. SITE NAME AND LOCATION | | | | | |
| OI SITE NAME (Legal, common, or descriptive name or sale) Simmons Casket | - Co. | P.O. Box 4 | SPECIFIC LOCATION I | DENTIFIER | |
| 03 CITY | | 04 STATE 05 ZIP CODE 0 | 6 COUNTY | 07COUNTY 08 CODE | CONG |
| Lancaster OB COORDINATES LATITUDE | LONGITUDE | 177 70474 | Varrance | d 40 | |
| 37°36'35".0 | 84, 34, 42,0 | <u> </u> | | | |
| 10 DIRECTIONS TO SITE (Scanne from moreon public road) Site 15 located on Hw and south through the 7 mile south on Hwy #39 & 2" | 4#39827 South town of Lancaste 1 from its intersection | which is the n rikentucky. To r with state Route! | nain highwarence that the ce | y running north travel approximatinter of Lown. | tely |
| III. RESPONSIBLE PARTIES | | | | | |
| 01 OWNER (# Imount) | 1 | 02 STREET (Business, mailing, res | udentiel) | | |
| Simmons Universo | 7 | 372 Wast | 106 PELEPHONEN | | |
| Wellesley Hills | · | MA 02181 | () | | |
| York Casket Co (form | erly Simmons Casket (| 08 STREET (Business, mailing, res | | | |
| 09 CITY | | 10 STATE 11 ZIP CODE | 12 TELEPHONE N | l l | |
| Lancaster | | KY 40444 | 16061792 | -2101 | |
| 13 TYPE OF OWNERSHIP (Check one) E. A. PRIVATE | | C, STATE | □ D.COUNTY | E. MUNICIPAL | |
| C F. OTHER: | (Agency name) | G, UNKNK | | | |
| 14 OWNER/OPERATOR NOTIFICATION ON FILE (Che | (Specify) | | | | |
| ☐ A. RCRA 3001 DATE RECEIVED: MONTH | DAY YEAR D B. UNCONTROL | LED WASTE SITE (CERCLA 103 | O DATE RECEIVE | D: HONTH DAY YEAR DE C. NO | ONE |
| IV. CHARACTERIZATION OF POTENTIAL | | | | | |
| OT ON SITE INSPECTION YES DATE 11 23,83 MONTH DAY YEAR | BY (Check at that apply) A. EPA* B. EP E. LOCAL HEALTH OFF | · · · - · · · · · · · · · · · · | | D. OTHER CONTRACTOR | |
| | CONTRACTOR NAME(S): | | | | ļ |
| 02 SITE STATUS (Checit one) | 03 YEARS OF OPER | 1965 TO D | | UNKNOWN | |
| 04 DESCRIPTION OF SUBSTANCES POSSIBLY PRES | | BEGINNING YEAR ENDING Y | | | |
| Paint thinner waste ? Solu III Trichlorothane Tech | int waste transported cling by parmitted tra n. 38401 | h to Reclaimed the suspenter: Oil Servi | ice co. Route: | a Petty Lane, Columb | ,14, |
| Taint Studge & MON-hozor | hous disposed of in | n permitted land | dsill. | | |
| | to Section IV, | Part 3 of for | rm. | | - |
| V. PRIORITY ASSESSMENT | | ······································ | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 01 PRIORITY FOR INSPECTION (Check one. If high or me A. HIGH (Inspection required promptly) | DIUM C. LOW | E D. NONE | rdous Conditions and incid er agtion needed, complete | · | |
| VI. INFORMATION AVAILABLE FROM | | | | | |
| 01 CONTACT | 02 OF (Agency/Organi | zation) | | 03 TELEPHONE NU | MBER |
| Hannah Leonard (Flyd Sw | pervisor) Env. Protect | ion. Div. of wester | Namt (Front | (hort) 1502 1564 - 6 | 0716 |
| Jim Childres (bu) | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | n Div. of Waste Mar | nt (502) 564 | 0.00 | 84 EAR |

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

| | | | | ASSESSMENT EINFORMATION | KY DOS | Ky D050074889 | | |
|----------------|--------------------------------|---------------------------------------|--|--|---|--|------------------------|--|
| II. WASTE ST | ATES, QUANTITIES, AN | ID CHARACTER | STICS | | . | | | |
| O1 PHYSICAL ST | | | TY AT SITE I waste quantifies independent) | O3 WASTE CHARACTE A. TOXIC B. CORROS C. RADIOAL D. PERSIST | © E. SOLU SIVE □ F. INFEC CTIVE □ G. FLAM | BLE (I. HIGHLY CTIOUS (I. J. EXPLOI IMABLE (II. K. REACT | SIVE TVE PATIBLE | |
| III. WASTE T | YPE | <u> </u> | | | | | | |
| CATEGORY | SUBSTANCE N | IAME | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS | | | |
| SLU | SLUDGE | | | | | • | | |
| OLW | OILY WASTE | | | | | | | |
| SOL | SOLVENTS | · · · · · · · · · · · · · · · · · · · | 1// | b | | | | |
| PSD | PESTICIOES | | 10// | | | | | |
| occ | OTHER ORGANIC C | HEMICALS | | | | | | |
| IOC | INORGANIC CHEMIC | ALS | | | | | | |
| ACD | ACIDS | | | | | | | |
| BAS | BASES | | | | i | | · | |
| MES | HEAVY METALS | | <u> </u> | | | | | |
| IV. HAZARDO | OUS SUBSTANCES (See A | | 03 CAS NUMBER | 04 STORAGE/DISP | | 05 CONCENTRATION | 06 MEASURE OF | |
| | N/A | | | N/A | | | | |
| | | | | | | | - | |
| V. FEEDSTO | CKS (See Appendix for CAS Mumb | eraj | | <u> </u> | | | · | |
| CATEGORY | 01 FEEDSTOO | K NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDST | OCK NAME | 02 CAS NUMBER | |
| FOS | | | | FDS | | | | |
| FOS | // | 4 | | FOS | | M | | |
| FDS | | <i>11</i> | | FDS | | // | | |
| FDS | | | | FDS | | | | |
| VI. SOURCE! | OF INFORMATION (CA | epecific references, e.g., | state flos, semple enerysis, | reports) | | | | |
| KYNR | (EPC'S Divisi | on of W | aste Mana | gement file | ۵ | | | |

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

| I. IDENTIFICATION | | | | | | |
|-------------------|----------|----------------|--|--|--|--|
| | 01 STATE | 02 SITE NUMBER | | | | |
| | KV | D05007 4889 | | | | |

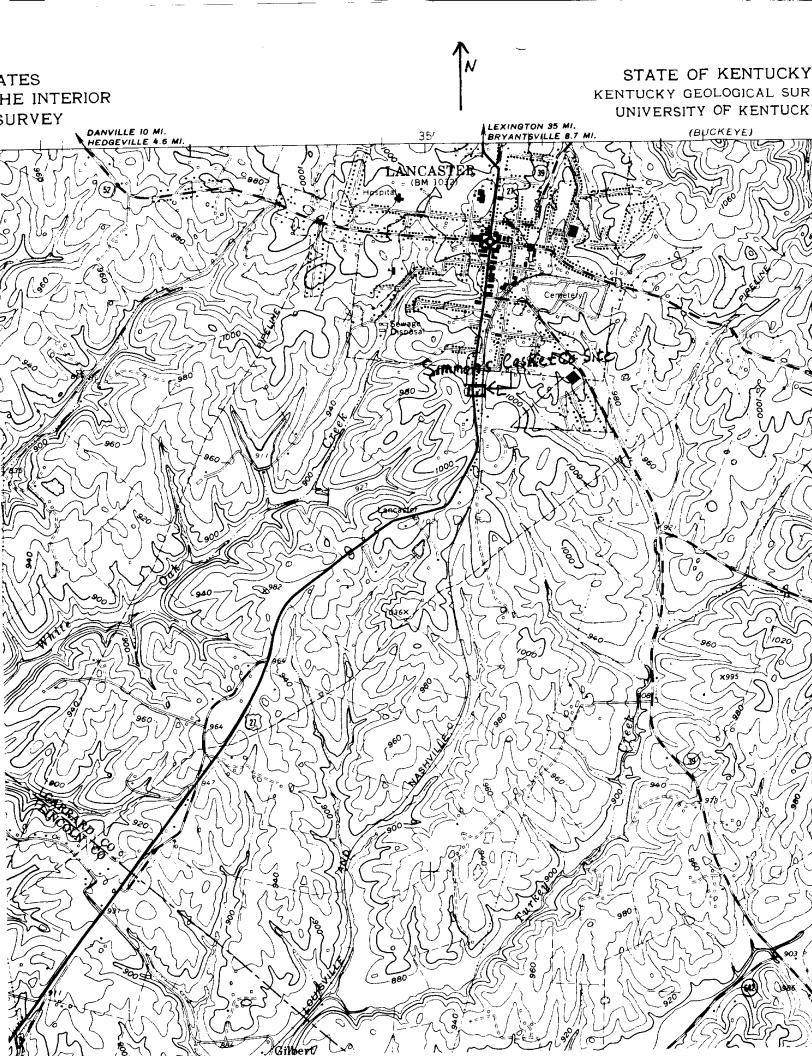
| | HAZARDOUS CONDITIONS AND INCI | DENTS | |
|--|--|----------------|-----------|
| II, HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 ☐ A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 □ OBSERVED (DATE: | _) DOTENTIAL | □ ALLEGED |
| N/ | A | | |
| 01 - B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 D OBSERVED (DATE: 04 NARRATIVE DESCRIPTION | _) □ POTENTIAL | □ ALLEGED |
| N, | , | | |
| 01 G. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | _) □ POTENTIAL | □ ALLEGED |
| | la . | | |
| 01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE: | _) □ POTENTIAL | ☐ ALLEGED |
| | V/A | | |
| 01 DE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: | 02 © OBSERVED (DATE: 04 NARRATIVE DESCRIPTION | _) © POTENTIAL | ☐ ALLEGED |
| | N/A | <u></u> | <u>-</u> |
| 01 G F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres) | 02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION | _) □ POTENTIAL | □ ALLEGED |
| | N/A | | |
| 01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 GBSERVED (DATE: | _) ☐ POTENTIAL | □ ALLEGED |
| · · · · · · · · · · · · · · · · · · · | N/A | | |
| 01 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: | 02 OBSERVED (DATE: | _) □ POTENTIAL | □ ALLEGED |
| | NA | | |
| 01 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION | _) ☐ POTENTIAL | □ ALLEGED |
| | N/A | | |

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

| ٠. | IDENT | TFICATION | _ |
|----|-------|----------------|---|
| 01 | STATE | 02 SITE NUMBER | |
| ١. | KY : | D050074889 | l |

| PART 3 - DESCRIPTION | ON OF HAZARDOUS CONDITIONS AND INCIDENTS | KYD | <u>050074889 </u> |
|--|--|---|--|
| IL HAZARDOUS CONDITIONS AND INCIDENTS (CO | unions saled? | | |
| 01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | 02 GBSERVED (DATE:) | □ POTENTIAL | C ALLEGED |
| | 11/10 | | |
| | NIA | | |
| 01 K. DAMAGE TO FAUNA O4 NARRATIVE DESCRIPTION (Include name(s) of species) | 02 (DATE:) | ☐ POTENTIAL | □ ALLEGED |
| | NIA | | |
| 01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION | 02 C OBSERVED (DATE:) | ☐ POTENTIAL | ☐ ALLEGED |
| | NIA | | |
| 01 M. UNSTABLE CONTAINMENT OF WASTES (Spaler runoff intending liquids/leaking drums) 03 POPULATION POTENTIALLY AFFECTED: | 02 (1 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ☐ POTENTIAL | □ ALLEGED |
| OS POPUDATION POTENTIALES AS PEOPLES. | | | |
| | NIA | | |
| 01 D N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION | 02 OBSERVED (DATE:) | ☐ POTENTIAL | □ ALLEGED |
| | NIA | | |
| 01 O. CONTAMINATION OF SEWERS, STORM DRAIN 04 NARRATIVE DESCRIPTION | S, WWTPs 02 G OBSERVED (DATE:) | □ POTENTIAL | □ ALLEGED |
| · | NIA | | |
| 01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION | 02 G OBSERVED (DATE:) | ☐ POTENTIAL | ☐ ALLEGED |
| | NIA | | <u>.</u> |
| 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL | , OR ALLEGED HAZARDS | | |
| • - | N/A | | |
| III. TOTAL POPULATION POTENTIALLY AFFECTE | D:P/H | | |
| IV. COMMENTS | | | |
| Prior to september 23, 1982, this fractility permit application. This acc Kyngere's Division of waste managim part A". No problems have been detected as an uncontrolled site. | acility was regulated by part'M" of the ounts for their inclusion on the EARIS little acting under RCRM phase I Interm Auding of howardous waste which | Federal Haz ist. On this c thorization, u h would gualif | wdow waste hate the withdraw their y ese facility |
| V. SOURCES OF INFORMATION (Cite specific references. | s. g., state files, sample analysis, reports) | | |
| KYNREPC'S Division of a | laste Management Files | | |



| 8 | EPA | |
|---|------------|--|
| 7 | | |

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

| | | | | | _ |
|--------|--------|--------|-----|-----|-----|
| REGION | SITEN | UMBER | (to | be. | **- |
| | aldned | by Hal | | | |

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Assessment Total Protection Protectio

| KYD050074889 GARR | | ~ne (EN | /-335); 401 M St., | SW; Washi | ngton, DC 20460. |
|---|---------------------------------------|-----------------|----------------------|----------------------|---|
| SIMMUNS CASKET CU | ARD | TION | | | |
| OFF KY 39 | | . E T;(o | or other identifier) | | |
| LANCASTER | KY 40444 | ı E | E. ZIP CODE | F. COUN | TY NAME |
| MADDEN, FRANK B. | 6067922101 | | | | |
| | | | | 2. TELE | PHONE NUMBER |
| N. TYPE OF OWNERSHIP | | | | k | |
| 1. FEDERAL 2. STATE | 3. COUNTY 34 MUNICIPAL | . [**)5 | PRIVATE [16 | UNKNOWN | |
| Mark of the | | | | | |
| "103-C NOTIFICATION | d 10 | - | | | |
| CARL SCHRUEDER PHUNE: 502-564-6716 | V" DATE: 810008 | | | | K. DATE DENTIFIED (mo., dey, & yr.) |
| | | | | 2. TELE | PHONE NUMBER |
| | | plete | this section last) | | |
| A. APPARENT SERIOUSNESS OF PROBLE 1. HIGH 2. MEDIUM | · · · · · · · · · · · · · · · · · · · | 5 | UNKNOWN | | |
| B. RECOMMENDATION 1. NO ACTION NEEDED (no hazard) |) [.] | 2. IMME | DIATE SITE INSPE | CTION NEE | DED |
| 3. SITE INSPECTION NEEDED B. TENTATIVELY SCHEDULED P | ×OA: | b. WIL | L BE PERFORMED |) BY: | |
| b. WILL BE PERFORMED BY: | | 4. SITE | INSPECTION NEED | DED (low pri | ority) |
| | | | | | F2/12 11 |
| C. PREPARER INFORMATION 1. NAME | V | | EPHONE NUMBER | | 3. DATE (Mos., day, & yr.) |
| | III. SITE INFORM | MATION | | | |
| A. SITE STATUS 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing besie, even if infrequently.) | altea which no longer receive (Tho | see sitee t | | | "midnight dumping" where ste disposal has occurred.) |
| B. IS GENERATOR ON SITE? | | | | | |
| 1. NO | 2. YES (apecify generator's | i four-dig | It SIC Code): | | |
| C. AREA OF SITE (In acres) | D. IF APPARENT SERIOUSNESS O | F SITE IS | | | |
| | 1. LATITUDE (degminsec.) | | 2. LONGITI | UDE (d eg. ∞1 | min.—Aec.) |
| E. ARE THERE BUILDINGS ON THE SIT | E7 | | | | |
| . NO . 2. YES (epecity |): | | | | |

| Co | ntinued From Front | | | | | | | | | | |
|-----------------|---|----------------|---------------------------------------|--|--------------|-------------------------|------------|--------------|--------------------|------|------------------------------|
| L_ | | | | . CHARACTERIZATI | | | | | | | |
| In | licate the major sit | e activity(ies |) and deta | ails relating to each a | cliv | ity by marking 'X' ir | the ap | propr | iate boxes | • | |
| , X . | A. TRANSPOR | TER X | · · · · · · · · · · · · · · · · · · · | B. STORER | × · | C. TREATER | t | ' x ' | 0 | . D | ISPOSER |
| | 1. RAIL | · · | 1 PILE | | 1 | FILTRATION | | | I. LANDEL | . L | |
| | 2. SHIP | | 2. SURFA | CE IMPOUNDMENT | 2 | . INCINERATION | | | 2. LANDFA | RM | ., |
| | 3. BARGE | | 3. DRUMS | | Э | . VOLUME REDUCTION |) N | | 9. OPEN DL | JMF | |
| | 4. TRUCK | | 4. TANK. | ABOVE GROUND | 4 | RECYCLING/RECO | VERY | | 4 SURFACE | E IN | MPOUNDMENT |
| T | 5. PIPELINE | | B. TANK. | BELOW GROUND | 8 | . CHEM./PHYS. TRE | ATMEN | , | 5. MIDNIGH | 7 0 | UMPING |
| | 6. OTHER (specify): | | 6. OTHER | (specify): | 6 | BIOLOGICAL TREA | THENT | | 6. INCINER | AT | ION |
| | , | | _ | | 7 | . WASTE OIL REPRO | CESSIN | G | 7. UNDERG | RO | NOITSELNI DNU |
| l | | į | | ţ | 8 | SOLVENT RECOVE | RY | | 8. OTHER (| ape | cily): |
| | | | ****** | |], | OTHER(specify): | | | | | |
| E. | E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED | | | | | | | | | | |
| L_ | | | | V. WASTE RELAT | ED | INFORMATION | | | | | |
| ļ | WASTE TYPE | jz LIQUID | <u>[</u>]3. | . SOLID []4 S | LU | DGE (| a s | | | | |
| В. | WASTE CHARACTER | RISTICS | | THE PERSON WAS ASSESSED TO SEE THE PERSON OF | | | | | | | |
| |]1 UNKNOWN | 2. CORROSIN | /E [j3. | . IGNITABLE T 4 F | A D | OACTIVE 5 H | GHLY ' | VOLA | TILE | | |
| | | | | INERT []9 F | | | | | | | |
| | | • | | | | | | | | | |
| ſ | 10. OTHER (specif | v): | | | | | | | | | |
| | WASTE CATEGORIE | | | THE RESERVE TO THE RESERVE TO STREET, THE PERSON OF T | | | | | ` | | |
| | | | Specify ite | ms such as manifests, in | 1 27 49 13 | tories, etc. below. | | | | | |
| | | | | | | | | | | | |
| | . Estimate the amo | unt(specify u | ınit of mea | sure)of waste by cate | NOL | v: mark 'X' to indic | ate whi | ch wa | istes are p | res | ent. |
| | a. SLUDGE | ь. он | | c. SOLVENTS | Ť | d. CHEMICALS | r | . SOL | i |] | (. OTHER |
| AM | OUNT | AMOUNT | - | AMOUNT | AN | OUNT | AMOUN | | | ΑМ | OUNT |
| | | | 1 | | | | | | | | |
| UN | IIT OF MEASURE | UNIT OF MEA | SURE | UNIT OF MEASURE | UN | IT OF MEASURE | UNIT | F MI | ASURE. | UN | IT OF MEASURE |
| | | | | | i | | | | | | |
| . . | (HPAINT, | 'X' (1) OIL Y | | 'X' (1) HALOGENATED | ļ., | <u></u> | - <u>-</u> | | | | |
| Ĥ | PIGMENTS | 1) OILY | s | SOLVENTS | | 11 A CIDS | 'X' | LYAS | F4 | l-^- | H) LABORATORY SHARMACEUT. |
| | | | | | | | <u>}</u> | | | | |
| | (2) METALS SLUDGES | | (specify): | (2) NON-HALOGNTO SOLVENTS | <u> </u> | (2) PICKLING LIQUORS | (2) 4 | SBES | тоѕ | | 121HOSPITAL |
| <u> </u> | WTO9(E) | | | (3) O THE R(specify) | - | -a CAUSTICS | | ALL F. | NG. FAILINGS | | (3) RADIOACTIVE |
| | (4) ALUMINUM SLUDGE | | | | ļ | (4. PESTICIDES | (4) E | ERRO MLTO | DUS I. WASTES | | (4) MUNICIPAL |
| | (5) OTHER (specify): | | | | | (5 DYES/INKS | | | ERROUS , WASTES | | (B) OTHER (specify): |
| | | | | | | (6) CYANIDE | [] '6' .' | ннег | ((specify): | | |
| l | | | | | | (7) PHENOLS | | | | | |
| | | | | | | (8) HALOGENS | | | | | |
| | | | | | | (9) PCB | | | | | |
| | | | | | | HOIME TALS | | | | | |
| | | | | | | (11) OTHER(specify) | | | | | |

| V. WASTE RELATED INFORMATION (continued) | | | | | |
|--|--|-----------------------------------|---|--------------------------------------|--|
| 3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard). | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 4. ADDITIONAL COMMENTS OR NAF | RRATIVE DES | SCRIPTION OF | F SITUATION KNOV | NN OR REPORTED TO EXIST AT THE SITE. | |
| | | | | | |
| | | | | | |
| | В. | | ARD DESCRIPTI | ON | |
| A. TYPE OF HAZARD | POTEN- TIAL HAZARD (mark 'X') | ALLEGED INCIDENT (mark 'X') | D. DATE OF INCIDENT (mo.,day,yt.) | E. REMARKS | |
| 1. NO HAZARD | <u> </u> | | | | |
| 2. HUMAN HEALTH | | | | | |
| 3. NON-WORKER INJURY/EXPOSURE | | | | | |
| 4. WORKER INJURY | | | | | |
| 6. CONTAMINATION OF WATER SUPPLY | | | | | |
| 6. CONTAMINATION OF FOOD CHAIN | | | | | |
| 7. CONTAMINATION OF GROUND WATER | | | | | |
| 8. CONTAMINATION OF SURFACE WATER | | | | | |
| 9. DAMAGE TO FLORA/FAUNA | | | | | |
| 10. FISH KILL | | | | · | |
| 11. CONTAMINATION OF AIR | | | | | |
| 12. NOTICEABLE ODORS | | | | | |
| 18. CONTAMINATION OF SOIL | | | | | |
| 14. PROPERTY DAMAGE | | | | | |
| 15. FIRE OR EXPLOSION | | | | | |
| 16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS | | | | | |
| 17. SEWER, STORM DRAIN PROBLEMS | | | | | |
| 18. EROSION PROBLEMS | · | | Anna | | |
| 19. INADEQUATE SECURITY | | | | | |
| 20. INCOMPATIBLE WASTES | | | | | |
| 21. MIDNIGHT DUMPING | | | | | |
| 22. OTHER (*pecify): | | | | | |
| | | | | | |
| | | <u> </u> | | | |

Continued From Front

| | | VII. PERMIT INFO | RMATION | | |
|--|--|------------------------|--|--|--|
| A. INDICATE ALL APPLI | CABLE PERMITS HELD B | Y THE SITE. | | | |
| I NBBE BERMIT | 2 SPCC PLAN | Cilla state deputa | Mari | | |
| 4. AIR PERMITS | 5 LOCAL PERMIT | * | | | |
| 7 RCRA STORER | B. RCRA TREATER | | | | |
| [] T RCHA STORER | E B. HCHA TREATER | [] 9 RUNA DISPOSEN | | | |
| 10. OTHER (specify) |): | | | | |
| B. IN COMPLIANCE? | p | | | | |
| 1. YES | 2. NO | 3 UNKNOWN | | | |
| 4. WITH RESPECT 1 | O (list regulation name & n | umher) | | | |
| | \ | /III. PAST REGULATO | RY ACTIONS | | |
| A. NONE | B. YES (summarize | below) | | | |
| | | | | | |
| • | | | | | |
| | | | | | |
| | 1X, IN | SPECTION ACTIVITY | (past or on-going) | | |
| | | | | | |
| A NONE | B YES (complete iter | ms 1,2,3, & 4 below) | | | |
| 1 TYPE OF ACTIV | 2 DATE O PAST ACTI (mo*, day, & | ON BY: | 4. DESCRIPTION | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | X. | REMEDIAL ACTIVITY | (past or on-going) | | |
| | | | | | |
| A. NONE | | ms 1, 2, 3, & 4 below) | | | |
| 1. TYPE OF ACTIV | 2, DATE O PAST ACTI (mo,, day, & | ON BY: | 4. DESCRIPTION | | |
| | | | | | |
| | | | And the second control of the second control | | |
| | | | | | |
| | | | L | | |
| NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) | | | | | |
| intermation (| on the first page of this | s rotm. | | | |

EPA Form T2070-2 (10-79)

PAGE 4 OF 4

ENVIRONMENTAL PROTECTION AGENCY

POTIS DATA MANAGEMENT SYSTEM _____ PAGE: 103 NOTES REPORT 1 LISTING BY FACILITY REPORT DATE: 11/06/81 REGIOU: 04 STATE: KY COTTELCATION SITE CASE PEQUIPED NOTIFIER NAME BOTIFIER STATUS LL :U. SIRESTREET REQUIRED BUTIFIER STREET (PIGES UNE PAST OWE STOR CETY REQUIRED NOTIFIER CITY PRES OF, PAST OF STATE ZIP (CONTACT NAME/TITLE) SITE COUNTY . . . TRARSPORTER, (CONTACT PHONE) EPA SITE ID FO. VOLUTTEER) KYSOOLUGIOSS SIMBORS CASKET CO. SIMBORS CASKET CO. OFF KY 39 LA.CASTER 40444 LANCASTER KY 40444 (MADDEN, FRANK B.) SAREARD AYD980557128 (606=792=2101) PEGEASES TO THE EDVIRONMENT: NOME DATES OF WASTE HANDLING: 1905 TO 1981 1 ABOUT TE 5,000 GALLORS AREA: 2,750 SO FT MAP PRESENTA VES FURM TYPE: 8900-1 *DITE. POST GREED DATE: 81/05/08 SIGNATURE PRESENT: YES DATE OF LAST UPDATE: 81/10/14 TYPES OF WASTES TYPE OF FACILITY SOURCES OF WASTE ALUN ABOYE GLOUND MON-HALOGENATED SOLV & SOLV REC STILL HOTTOMS OTHER=(SEE COMMENTS) NON-HALOGERATED SOLV & SOLV REC STILL BOTTOMS WASTEWATE TREATMET SLUDGE FM INDUSTRI PAINING SOLVENTS SEQ UO. SEE FILE 1 PAINT OPERATION 400

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

| REGION | SITE NUMBER (to be as- signed by Hq) |
|--------|---|
| V | KYD050074889 |

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

| GENERAL INSTRUCTIONS: Complete Sections I and III through Assessment). File this form in the Regional Hazardous Waste L Agency; Site Tracking System; Hazardous Waste Enforcement T | og File and su | ibmit a copy to: \ | J.S. Enviro | onmental Protection | |
|--|---|-----------------------------------|-------------|--|--|
| I. SITE IDE | NTIFICATION | | | | |
| A. SITE NAME | | r other identifier) | | | |
| | 1 | E. ZIP CODE | T = 5000 | ITY NAME | |
| LANCASTER_ | D. STATE | 40444 | 1 | 22AD | |
| G. OWNER/OPERATOR (if known) | | | • | | |
| 1. NAME SAME AS ABOVE | | | 2. TELE | PHONE NUMBER | |
| H. TYPE OF OWNERSHIP | | | | | |
| 1. FEDERAL 2. STATE 3. COUNTY 4. MUNIC | CIPAL 5. | PRIVATE6. | UNKNOWN | | |
| 1. SITE DESCRIPTION (asket manufacturer. | | | | | |
| J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) | | | | K. DATE IDENTIFIED | |
| cecca notification | | (mo., day, & yr.) | | | |
| L. PRINCIPAL STATE CONTACT 1. NAME | | | \ <u>_</u> | PHONE NUMBER | |
| HANNAH LEONARD | | | (50Z) | 564-6716 | |
| II. PRELIMINARY ASSESSME | NT (complete | this section lest) | | | |
| A. APPARENT SERIOUSNESS OF PROBLEM 1. HIGH 2. MEDIUM 3. LOW 4. NONE | 5. | UNKNOWN | | | |
| B. RECOMMENDATION 1. NO ACTION NEEDED (no hexerd) 3. SITE INSPECTION NEEDED | a. TEN | DIATE SITE INSPECT | ULED FOR | | |
| e. TENTATIVELY SCHEDULED FOR: | J. #12 | - DE PERFORMED | | | |
| b. WILL BE PERFORMED BY: | 4. SITE | INSPECTION NEED | ED (low pri | lority) | |
| C. PREPARER INFORMATION | | | | | |
| 1. NAME Hannah Leonard | _ [| 5. DATE (mos, day, & yrs). 5/5/82 | | | |
| | |) 564-6716 | | 2/3/02 | |
| A. SLTE STATUS | FORMATION | | | | |
| 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.) | Those sites ! | | | "midnight dumping" where sete disposal has occurred.) | |
| B. IS GENERATOR ON SITE? | | | | | |
| 1. NO Z. YES (epecify gene | rator's four-dig | it SIC Code): 394 | 15 | | |
| C. AREA OF SITE (In acres) D. IF APPARENT SERIOUSN 1. LATITUDE (degminse | APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES TITUDE (degminsec.) 2. LONGITUDE (degminsec.) | | | | |
| E. ARE THERE BUILDINGS ON THE SITE? 1. NO 2. YES (epecity): plant itself | | | | | |
| | | | | | |

| Coe | Continued From Front | | | | | | | | | | | |
|--------------------------------|--|------------------|----------------------|--------------|-----------------------|-----------------|---|----------------|-----------------|---------------------|-----------------|---------------------------|
| | | | | <i>1</i> . C | HARACTERIZATI | ИО | OF SITE ACTIVITY | Y | | | | |
| Ind | icate the major site act | tivity(ies |) and deta | ils | relating to each ac | tiv | ity by marking 'X' i | n tl | ne appropr | iate boxes | J., · | |
| ' × ' | A. TRANSPORTER | × | 1 | B. S | STORER | × | C. TREATER | ₹ | 'x' | |). D | ISPOSER |
| | 1. RAIL | | 1. PILE | | | 1 | . FILTRATION | | | I. LANDE! | LL | |
| | 2. SHIP | | .j | | IMPOUNDMENT | - 2 | INCINERATION | | | 2. LANDEA | RM | <u> </u> |
| \vdash | 3. BARGE | - 10 | 10. | | | - 3 | VOLUME REDUCTI | ON | | OPEN D | UM | P |
| | 4. TRUCK | | 4. TANK. | A B | OVE GROUND | 4 | RECYCLING/RECO | VE | RY | 4. SURFAC | E 1 | MPOUNDMENT |
| | 5. PIPELINE | | | | LOW GROUND | | . CHEM./PHYS. TRE | AT | MENT | 6. MIDNIGH | 1 T | DUMPING |
| Н | 6. OTHER (specify): | <u> </u> | 6. OTHER | ₹ (# | pecify): | BIOLOGICAL TREA | | | S. INCINER | | | |
| Ì | | Ì | | <u> </u> | | | . WASTE OIL REPRO | | | | | NOITSELNI GNU |
| | | - | | | - | | . SOLVENT RECOVE . OTHER (specify): | RY | | S. OTHER (| *P | ecity): |
| | | | | | <u> </u> | ' | | | | | | |
| E. | SPECIFY DETAILS OF S | ITE ACT | IVITIES AS | N E | EEDED | _ | | | | | | |
| | This facili paint sludge | ·L | A / | _ | d an each | ! | متمضع لمنتم ما | | Leca | nonl | La | zardous |
| | + MIS BCC111 | 77 7 | anas | a | thes case | 21 | s and gone | - | Maile | - | | |
| | paint sludge | ana | 50 me | \$ | olvent whi | cv | 1 is smipped | 9 | 7-5/7 | • | | |
| | • | | | | | | • | - | • | | | |
| | | | | | V. WASTE RELAT | ED_ | INFORMATION | | | | | |
| 1 | WASTE TYPE | | | | | | | - | | | Ī | |
| | 1. UNKNOWN 2. LIQUID 3. SOLID 4. SLUDGE 5. GAS | | | | | | | | | | | |
| | WASTE CHARACTERIST | - | | | | | | | | | | |
| |]1. UNKNOWN | | | | | | | IGH | ILY VOLA | TILE | | |
| G | 7 6. TOXIC 17 . F | REACTIVE | E8 | . IN | ERT 9. F | LA | MMABLE | | | | | |
| _ |] 10. OTHER (specify): | | | | | | | | | | | |
| | WASTE CATEGORIES | | S | | | | | | | · · · · · · | | |
| ' | . Are records of wastes av | wilm pres | Specify ite | ms | auch as manifests, in | ven | tones, etc. below. | | | | | |
| | | | | | | | | | | | | |
| _2 | . Estimate the amount (| specify u | init of mea | su | re) of waste by cate | gor | y; mark 'X' to indic | ate | which we | stes are p | res | ent. |
| a. SLUDGE b. OIL AMOUNT AMOUNT | | <u> </u> | c. SOLVENTS | | d. CHEMICALS | | <u> </u> | e. 50L | IDS | f. OTHER | | |
| ^^ | OUNT AMO | ON (| | ^~ | • | AMOUNT | | AMCUNT | | ^^ | IOUN F | |
| UN | IT OF MEASURE UNI | T OF ME | SURE UNIT OF MEASURE | | UNIT OF MEASURE | | UNIT OF MEASURE | | UNIT OF MEASURE | | | |
| | | | | | JATT OF MEASURE | | UNIT OF MEASURE | | TITL OF MEASURE | | SHIT OF MEASURE | |
| ·×· | /1) BAINT X' | | | . ×. | <u> </u> | × | | l _× | | | ·× | |
| Ŷ | (1) PAINT, X' (1) PIGMENTS | 1) OILY WASTE | :s | Ŷ | SOLVENTS | ۴ | (1) A CIDS | Ĥ | (1) FLYAS | н | 屵 | (1) PHARMACEUT. |
| | (2) METALS | (2) OTHER | (apacify): | | (2) NON-HALOGNED | | (2) PICKLING | T | / | | Γ | |
| | SLUGGES | | ((= = = = =), | X | SOLVENTS | 1_ | LIQUORS | | (2) ASBES | TOS | | (2) HOSPITAL |
| | (2) 007 # | | | | (3) OTHER(specify): | Γ | (a) CAUSTICS | Γ | (3) MILLI | | | (a) B 4 B (a) 6 E E (u) E |
| | (3) POTW | | ĺ | | | L | (3) CAUSTICS | L | MINE | AILINGS | L | (3) RADIOACTIVE |
| | (4) ALUMINUM | | | | | | (4) PESTICIDES | | ,, FERR | ous | | (A) MUNICIPAL |
| | SLUDGE | | | | | L | (4) PESTICIDES | L | "" SMLTO | US . WASTES | L | (4) MUNICIPAL |
| | (8) OTHER(specify): | | | | | | (8) DYES/INKS | | (5) NON-F | ERROUS L. WASTES | - | (5) OTHER (specify): |
| 1 | | | | | | Г | (4) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | (8) OTHER | (specify): | 1 | |
| | İ | | | | | L | (6) CYANIDE | | - | | | |
| | | | | | | | (7) PHENOLS | | | | | |
| 1 | | | | 1 | | \vdash | | 1 | | | | |
| 1 | [| | | | | | (8) HALOGENS | 1 | | | | |
| | | | | | | \vdash | | 1 | | | 1 | |
| 1 | | | | ŀ | | | (9) PCB | | | | | |
| | | | | | | | (40) | 1 | | | | |
| | | | | | | L | (10) METALS | ŀ | | | | |
| | | | | | | - | (11) OTHER (apacity) | 1 | | | | |

| Continued From Page 2 | | | | The same and the s | | | | | | |
|---|--|---|---|--|--|--|--|--|--|--|
| 3. LIST SUBSTANCES OF GREATES | | | ED INFORMATION THE SITE (P | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 4. ADDITIONAL COMMENTS OR NAP | RRATIVE DE | SCRIPTION O | F SITUATION KNO | WN OR REPORTED TO EXIST AT THE SITE. | | | | | | |
| | | | | | | | | | | |
| VI. HAZARD DESCRIPTION B. | | | | | | | | | | |
| A. TYPE OF HAZARD | POTEN- TIAL HAZARD (merk 'X') | C. ALLEGED INCIDENT (merk 'X') | D. DATE OF INCIDENT (mo.,day,yr.) | E, REMARKS | | | | | | |
| 1. NO HAZARD | | | | | | | | | | |
| 2. HUMAN HEALTH | | | <u></u> | | | | | | | |
| 3. INJURY/EXPOSURE | | | | | | | | | | |
| 4. WORKER INJURY | | | | | | | | | | |
| B. CONTAMINATION B. OF WATER SUPPLY | | | | | | | | | | |
| 6. OF FOOD CHAIN | | | | | | | | | | |
| 7. CONTAMINATION OF GROUND WATER | | | | | | | | | | |
| 8. OF SURFACE WATER | | | | | | | | | | |
| 9. FLORA/FAUNA | | | | | | | | | | |
| 10. FISH KILL | | | | | | | | | | |
| 11. CONTAMINATION | · | | | | | | | | | |
| 12. NOTICEABLE ODORS | | ļ | | | | | | | | |
| 13. CONTAMINATION OF SOIL | | | | | | | | | | |
| 14. PROPERTY DAMAGE | | | | | | | | | | |
| 15. FIRE OR EXPLOSION | | | | | | | | | | |
| 16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS | | | | | | | | | | |
| 17. SEWER, STORM ORAIN PROBLEMS | | | | | | | | | | |
| 18. EROSION PROBLEMS | | | - | | | | | | | |
| 19. INADEQUATE SECURITY | | | | | | | | | | |
| 20. INCOMPATIBLE WASTES | | | l | · · · · · · · · · · · · · · · · · · · | | | | | | |
| 21. MIDNIGHT DUMPING | | <u> </u> | , | and samples stated. | | | | | | |
| 2 2. OTHER (specify): | | | | , | | | | | | |
| | | | | | | | | | | |

| Continued From Front | | | •., | | | | | | |
|--|---|------------------------------------|--|--|--|--|--|--|--|
| | | II. PERMIT INFO | RMATION | | | | | | |
| A. INDICATE ALL APPLICABLE PE | | | | | | | | | |
| | | | | | | | | | |
| 1. NPDES PERMIT 2. SPCC PLAN 3. STATE PERMIT(epecity): | | | | | | | | | |
| X 4. AIR PERMITS 5. LOCAL PERMIT 6. RCRA TRANSPORTER | | | | | | | | | |
| 7. RCRA STORER 8. RCRA TREATER 9. RCRA DISPOSER | | | | | | | | | |
| 10. OTHER (apecify): | ··· | | | | | | | | |
| B. IN COMPLIANCE? | | | | | | | | | |
| 1. YES 2. NO | | 3. UNKNOWN | | | | | | | |
| 4. WITH RESPECT TO (list regulation name & number): | | | | | | | | | |
| | VIII. | AST REGULATO | RY ACTIONS | | | | | | |
| A. NONE B. Y | ES (summarize below |) | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | IX. INSPE | TION ACTIVITY | (past or on-going) | | | | | | |
| A. NONE B. YE | | | | | | | | | |
| 1. TYPE OF ACTIVITY PAST ACT | | 3. PERFORMED BY: (EPA/State) | 4. DESCRIPTION | | | | | | |
| routine generator inspections | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
|] | | ļ | , and the second | | | | | | |
| | X. REMEDIAL ACTIVITY (past or on-going) | | | | | | | | |
| A. NONE B. YE | S (complete items 1, | 2, 3, & 4 below) | | | | | | | |
| 1. TYPE OF ACTIVITY | 2. DATE OF PAST ACTION | 3. PERFORMED | 4. DESCRIPTION | | | | | | |
| 1. THE OF ACTIVITY | (mo., day, & yr.) | BY: (EPA/State) | 4. DESCRIPTION | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | ļ | | | | | | | |
| | | 1 | | | | | | | |
| | | | | | | | | | |

EPA Form T2070-2 (10-79)

PAGE 4 OF 4

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II)

This facility did not need be notify.

information on the first page of this form.



fication of Hazardous Waste E.e.

United States Environmental Protection Agency Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

8/0608

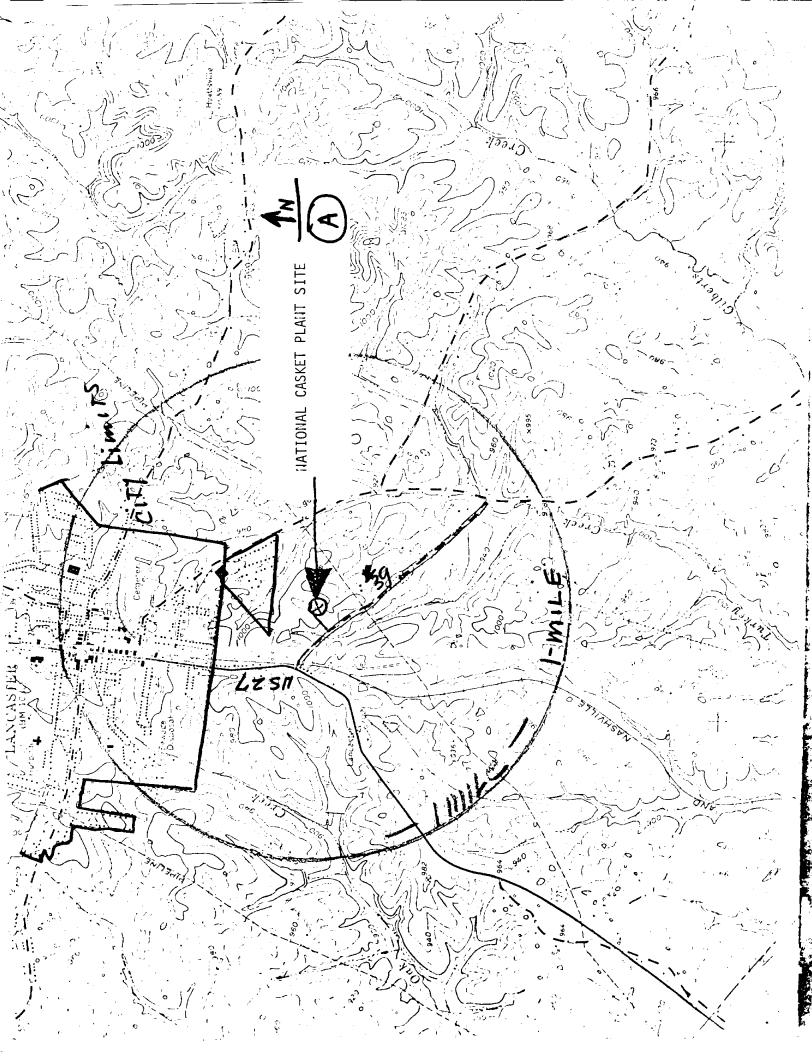
| | | | | | | K | 45 c | 00 | 1001 | 08 | 5 |
|---|--|---------------------------|-----------------------------|------------------|--|--|--|---------------------------------|--|--------------------------------------|----------------|
| 4 | Person Required to Notify: | | | | | | · | | | | |
| | Enter the name and address of th | | Name | | | | | | | | |
| | or organization required to notify. | • | Street | A | | | | | | | |
| | | | | 91 | | | | | | | |
| | | | City | / | | | State | | Zip Code | | |
| 3 | Site Location: | | | | | | | | | | ,,- |
| | Enter the common name (if know | Name of Site | <u>√ Simmo</u> | ns Caske | et Co. | Div.G+ | W_Cas | sket Co | rp. | | |
| | actual location of the site. KYD 98055 716 | Street | Route | 3 DFF | KY | 39 | | | | | |
| | יי פפטעדעו | 7.0 1.36 | | ncaster | | Garra | rd _{State} | Κv. | | 40444 | |
| | LANGE CONTRACTOR | | City Ltd. | | County | - Carra | State | | Zip Code | | |
| 2 | Person to Contact: | | Ala (I ass | Cinca and Tistal | М., а | - Theorem | mla D | | | | |
| | Enter the name, title (if applicable | Name (Last, | First and Title) | <u> Maddel</u> | n, rrai | nk B. | | | | | |
| | business telephone number of the to contact regarding information | Phone | (606) | 792-21 | 01 | | | | | | |
| | submitted on this form. | | | | | | | | | | |
| | | | | | | A | 4 | | | | |
|) | Dates of Waste Handling: | | | | | 1 1 | , U | | | | |
| | Enter the years that you estimate treatment, storage, or disposal be | | From (Year) | 1965 | To (Year) | Pre | sent | | | | |
| | ended at the site. | | | | | | | | | | |
| | Waste Type: Choose the optio | <u> </u> | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | Option I: Select general waste ty you do not know the general wast encouraged to describe the site in | te types or 1 Item I—C | sources, your secription of | ou are | Resource regulation | Conservat ns (40 CFR | on is availal tion and Red Part 261). | | | | |
| | General Type of Waste: Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category. | | of Waste: X in the ap | propriate | EPA has a listed in t appropria the list of | he regulat te four-dig hazardous | aste: four-digit r ìons under it number i s wastes an Region serv | Section n the bo id codes | 3001 of R0 exes provide can be obt | CRA. Ente ed. A copy tained by | er the y of |
| | 1. 🛘 Organics | 1. 🗆 Mi | ning | | located. | | | | | | |
| | 2. 🗆 Inorganics | 2. 🗆 Co | nstruction | | F003 | | F01 | 8 | | | 7 |
| | 3. 🗸 Solvents | 3. 🗆 Te: | xtiles | ļ | F005 | | | | | | 1 |
| | 4. Pesticides | 4. ☐ Fe | | | | | | | | |] |
| | 5. 🗆 Heavy metals | | per/Printing | - 1 | | | | | | | _ |
| | 6. ☐ Acids | | ather Tanni | - 1 | | | L | | | <u> </u> | 4 |
| | 7. □ Bases 8. □ PCBs | | n/Steel For emical, Ger | · 1 | ļ | | | D# | m | | |
| | 9. D Mixed Municipal Waste | | eting/Polish | I | | | | | | 0 | 4 |
| | 10. Unknown | | litary/Amm | - 1 | } | | 2 | | 33- | · | 4 . |
| | 11. ☐ Other (Specify) | | ectrical Con | 1 | Ļ | | <u></u> | | <u> </u> | | 4 |
| | C. C. Otto: (Openin) | | ensformers | 4400013 | | | TO C | | | -4- | ħ |
| | | | ility Compa | nies | | | ~~~ | 7 | 0 m | | |
| | | | nitary/Refu | | | | | | Z O | - | • |
| | | 15. □ Ph | | | Above | - Haz | ard ou s | കூ∄ast: | from | 4 | 1 |
| | | | b/Hospital | 1 | 11000 | | specif | | | | |
| | | 17. □ JJn | | İ | | | .31 | | | | |
| | | | her (Specify | n 1 | | 201 | | | | | |
| | | Da Tat | teage) | | | | | | | | |

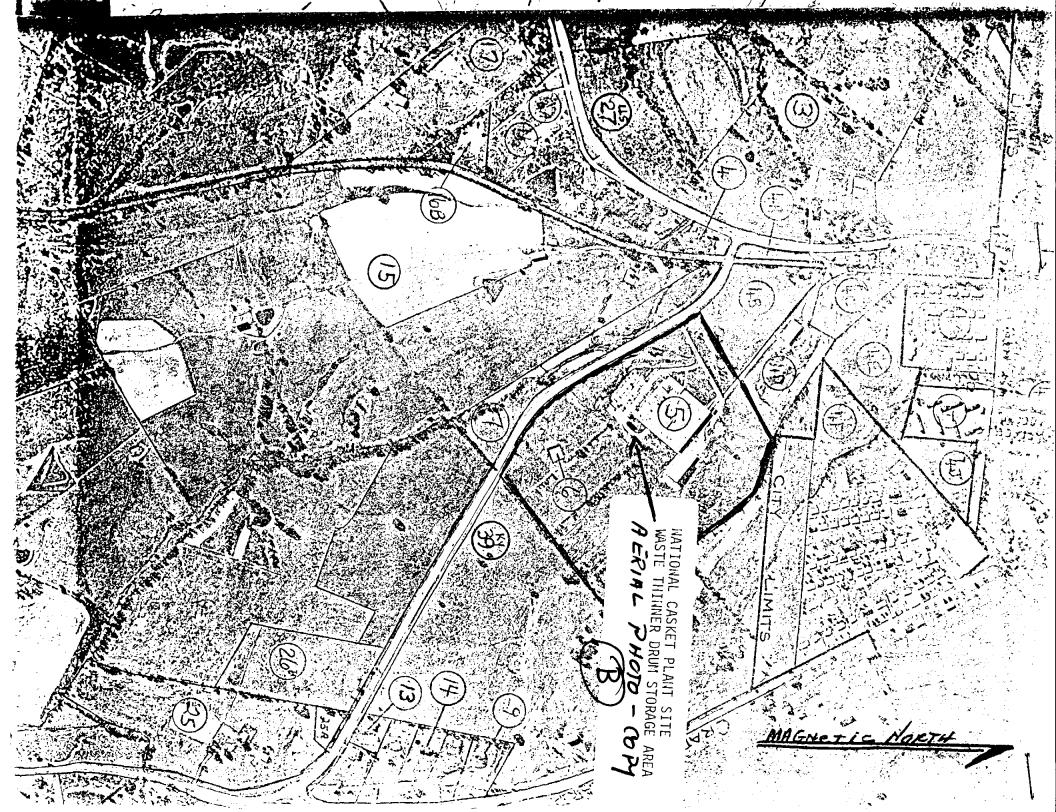
Form Approved OMB No. 2000-0138

Notification of Hazardous Waste Site Side Two Waste Quantity: Total Facility Waste Amount Facility Type Place an X in the appropriate boxes to Unknown 1. Piles cubic feet indicate the facility types found at the site. 2. Land Treatment 5000 Maximum gallons In the "total facility waste amount" space 3. Landfill give the estimated combined quantity 4. Tanks **Total Facility Area** (volume) of hazardous wastes at the site 5. Impoundment 2750**'** using cubic feet or gallons. square feet 6. Underground Injection In the "total facility area" space, give the .09 7.XX Drums, Above Ground estimated area size which the facilities acres occupy using square feet or acres. 8. Drums, Below Ground 9. ☐ Other (Specify)_ Known, Suspected or Likely Releases to the Environment: ☐ Known ☐ Suspected ☐ Likely ☐ None Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment. Note: Items Hand I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so. Sketch Map of Site Location: (Optional) Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate SEE ATTACHED: the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location. Α. Topographical Map Aerial Photo copy - Plant Site В. Photo copy Drum "Waste" storage area Drawing of Plant Site D. E & F Copies of aerial photos **Description of Site:** (Optional) Paint thinner waste - stored in 55 gal. Describe the history and present drums - pumped into tank trucks once conditions of the site. Give directions to the site and describe any nearby wells, or twice per year - transported to a springs, lakes, or housing. Include such recycling facility to reclaim the solvents. information as how waste was disposed and where the waste came from. Provide any other information or comments which Paint Sludge F018 - rendered neutral and may help describe the site conditions. transported to City owned land fill 040.06 Est. 2000 Gals.per year Signature and Title: The person or authorized representative Frank B.Madden, Jr. Name □ Owner, Present (such as plant managers, superintendents, □ Owner, Past trustees or attorneys) of persons required P.O.Box 42 Industrial Rd. to notify must sign the form and provide a mailing address (if different than address Street □ Transporter □ Operator, Present Lancaster in item A). For other persons providing Zip Code City notification, the signature is optional. □ Operator, Past Check the boxes which best describe the XXX Other relationship to the site of the person

required to notify. If you are not required

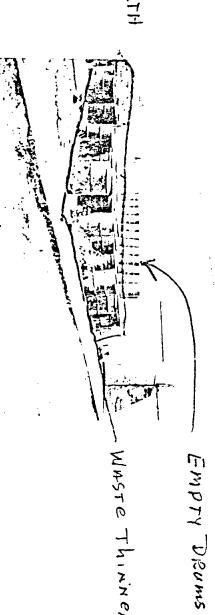
to notify check "Other".





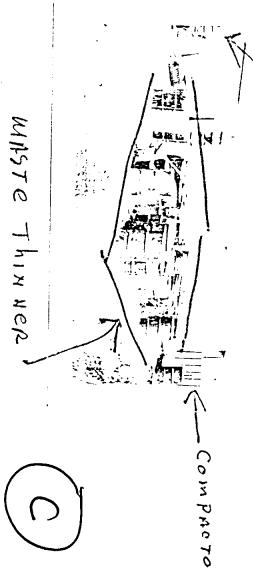
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South to Noeth

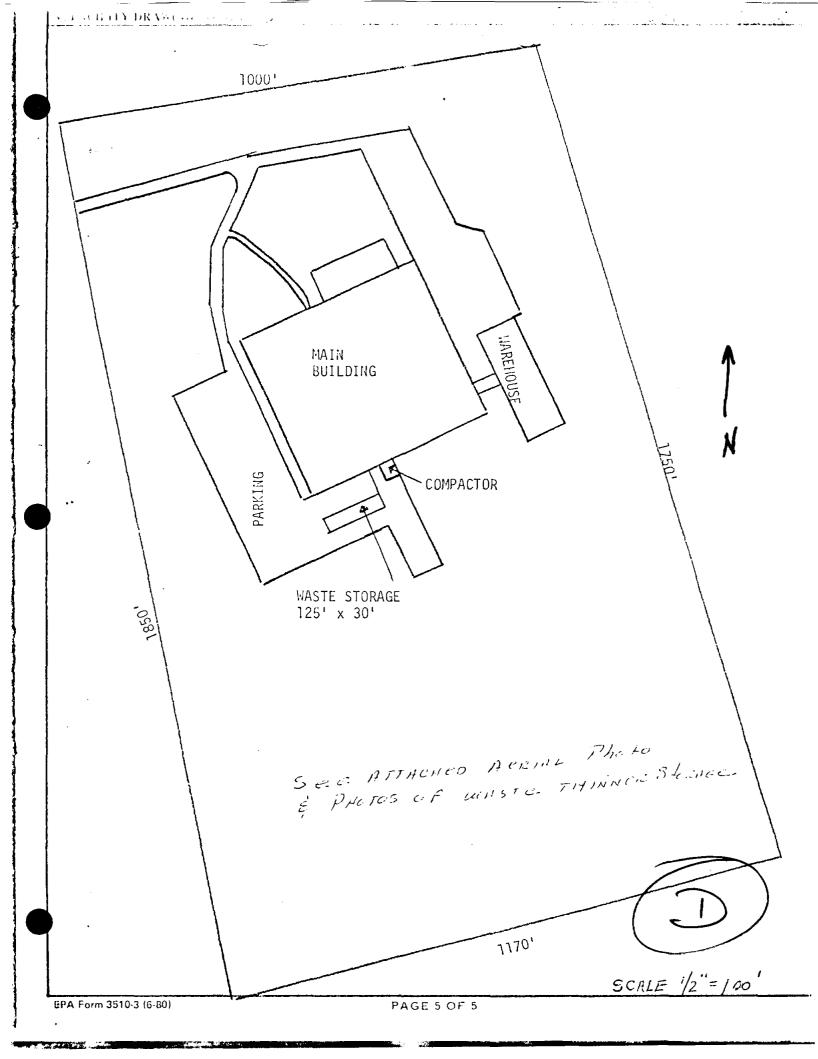


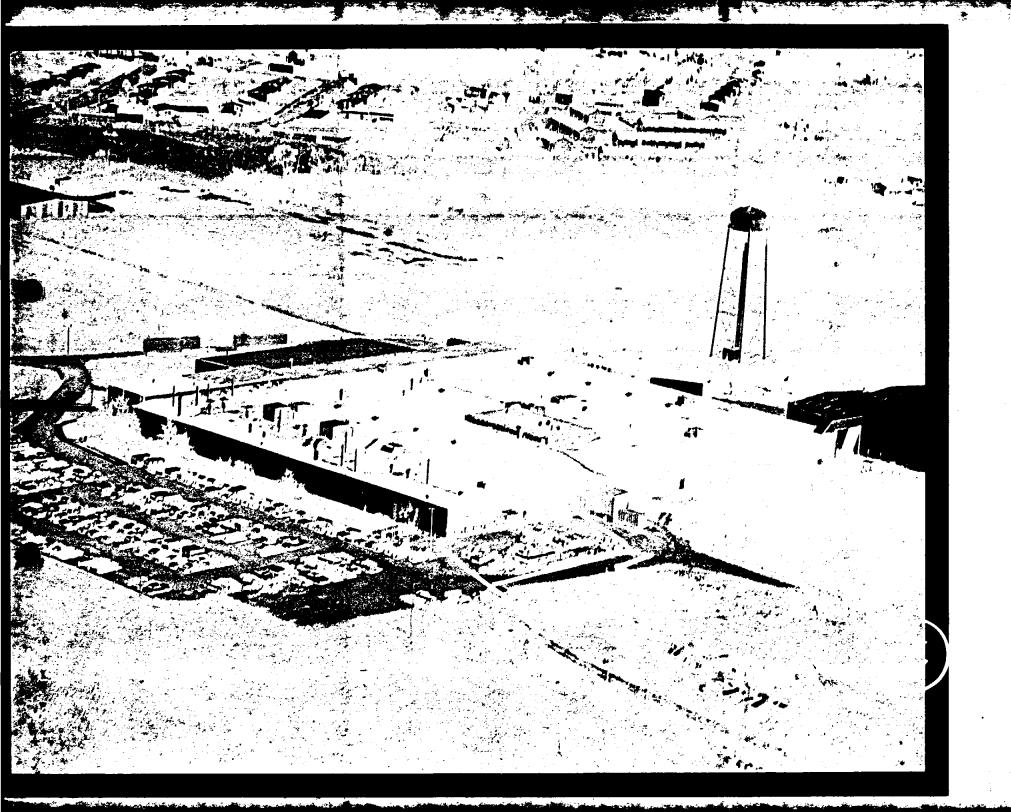
アメロケン

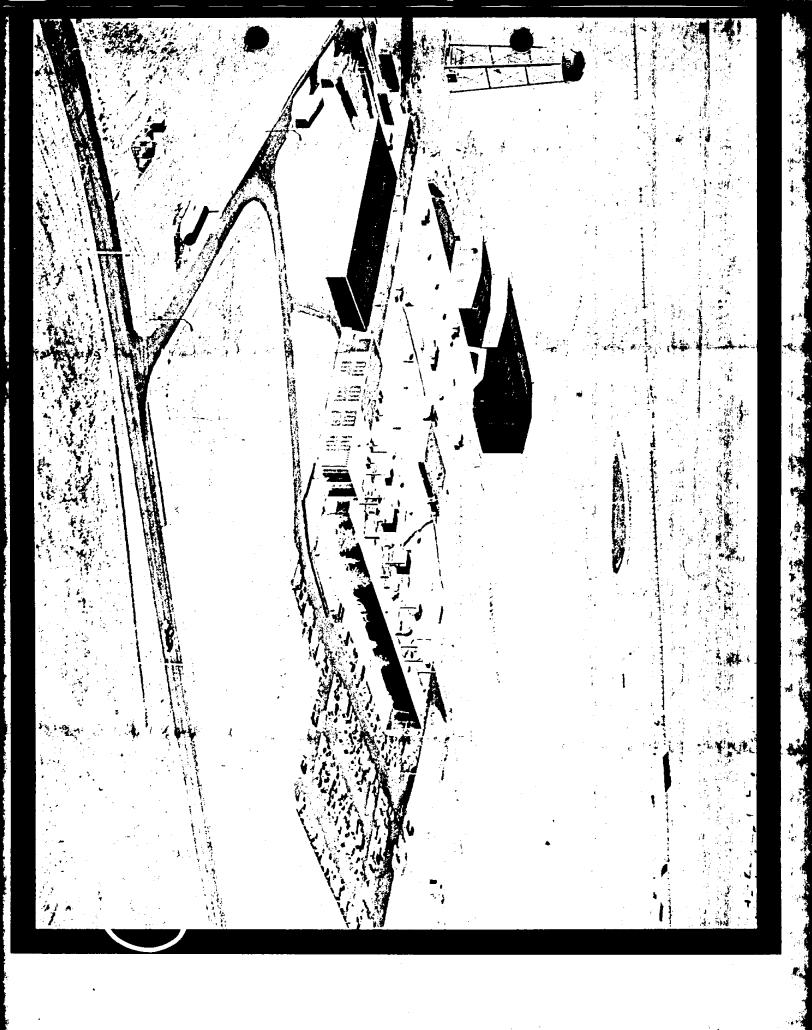
VIlesT to EAST



Kefeeto EPA FORM 3510-(6-80) trace







SITE ASSESSMENT DECISION - EPA REGION IV

| Site Name: Simmons CASKet CompanHPA ID#: KYD 050074 889 |
|---|
| |
| City: LANCASTER County or Parish: GARRARD State: Ky |
| Refer to Report Dated: PA: SI: 10/30/97 Other (report type & date): |
| Report developed by: StU WASTE SCI |
| DECISION: |
| 1. Further Action under Superfund (CERCLA) is not appropriate or required because: |
| 1 la. Site Evaluation Accomplished (SEA). 1 b. Action Deferred to: RCRA NRC |
| 2. Further Investigation Needed Under Superfund: 2a. Priority: Higher Lower |
| 2b. Activity PA ESI Type: SI evaluate HRS score |
| Other: |
| DISCUSSION/DATIONALD. SITE SEA ALE TO LOUR SECTION |
| S/28/12. Minor Revisions complete 11/4/97 |
| <u> </u> |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| Report Reviewed and Approved by: OFTEN (ARR Signature: 1. Date: 1.25/9. |
| Site Decision Coffen CARR Signature: Date: 1/25/93 |
| ON 8/28/93 EPA Form # 9100-3 |

| Fraing name Simmons Casket Company |
|--|
| Lancaster Kentucky |
| DETECTION: 11/11 AC DETECTION 1990 |
| Person(s) in charge of the feathy: |
| |
| Name of Reviewer: |
| Site formerly produced caskets. The site has |
| been remodelled and now produces abrasive |
| Wheels. |
| Potential contra mants include paint sludge, |
| chloroe whe. |
| CITIOTO CONTINE. |
| Scores: SM = 24.22.1Sgw = 59.0 + 3.0 - 0 . S = N/A) |
| SFE = N/A |
| Denotes observed release score |

HRS COVER SHEET

| | Surface Water Route Work She | ●t | | | |
|---|--|-----------------|---------|--|------------------|
| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section |
| Observed Release | 0 45 | 1 | 0 | 45 | 4.1 |
| | given a value of 45, proceed to line 4 given a value of 0, proceed to line 2. | | · | ************************************** | |
| Route Characteristics Facility Slope and Inte | ervening 0 1 2 3 | 1 | 0 | 3 | 4.2 |
| Terrain 1-yr, 24-hr. Rainfall Z Distance to Nearest S | | 1 2 | 2 6 | 3 | |
| Water 2500' Physical State unline | w.c 0 1 2 3 | 1 | 3 | 3 | |
| | Total Route Characteristics Score | | 11 | 15 | - |
| 3 Containment cukuwa | 0 1 2 3 | 1 | 3 | 3 | 4.3 |
| Waste Characteristics Toxicity/Persistence Hazardous Waste und Quantity | | 1 | 18 8 | 18 8 | 4.4 |
| | Total Waste Characteristics Score | | 26 | 28 | |
| Targets Churustram Surfer Surface Water Use & M. Distance to a Sensitive Environment > 1 mi | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 3 2 | 0 | 9 6 | 4.5 |
| Population Served/Dis to Water Intake Downstream | | 1 | 0 | 40 | |
| | Total Targets Score | | 0 | 55 | |
| 6 If line 1 is 45, multiply | ly 1 x 4 x 5 y 2 x 3 x 4 x 5 | NOR OR | 0 | 54,350 | |
| | And the second s | | ~ | | |

| NOT SCORED | | | | | | | | | |
|--|------------------|-------------------|----------------|------------|--------|-----------------|-------|--|-------------------|
| Fire and Explosion Work Sheet | | | | | | | | | |
| Rating Factor | A | | ed Va e Ond | | | Multi- plier | Score | Max. Score | Ref. (Section) |
| Containment | 1 | | | 3 | | 1 | | 3 | 7.1 |
| Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity | 0 0 0 | 1 2 1 2 1 2 | 3 | 4 5 6 | 7 8 | 1 1 1 1 | | 3 3 3 3 8 | 7.2 |
| | Total Was | te Ch | aracti | aristics S | ecore. | | | 20 | |
| Targets Distance to Nearest | . 0 | 1 2 | 3 | A 5 | | 1 | | 5 | 7.3 |
| Population Distance to Nearest | 0 | | 3 | • | | 1 | | 3 | |
| Building Distance to Sensitive | | | 3 | | | 1 | | 3 | |
| Environment | | | | | | , | | | |
| Land Use Population Within | 0 | 1 2 | | 4 5 | | 1 | | 3 5 | |
| 2-Mile Radius Bulldings Within 2-Mile Radius | 0 | 1 2 | 3 | 4 5 | | 1 | | 5 | |
| | | | | | | | | | |
| | То | al Ta | rgots | Score | | | | 24 | |
| Multiply 1 x 2 x | 3 | | | | | | | 1.440 | |
| 5 Divide line 4 by 1,4 | 140 and multiply | by 1 | 00 | | | S t t = | | ······································ | |

| | S | 5 2 |
|---|----------------------|---------|
| Groundwater Route Score (Sgw) | 39.5 59. 2 | 1560.25 |
| Surface Water Route Score (Saw) | 0 | 0 |
| Air Route Score (Sa) | NOT! | SCORED |
| $s_{gw}^2 + s_{sw}^2 + s_a^2$ | | 1560.25 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$ | | 39.50 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$ | | 34.72 |

WORKSHEET FOR COMPUTING SM

NOTSCORED

| | Air Route Work She Assigned Value (Circle One) 0 45 0. Enter on line [5] ceed to line [2] | Multi- plier 1 | Score Se | fax. core | Ref. Section: |
|--|---|----------------------|----------|--------------|--|
| Date and Location: Sampling Protocol: If line 1 is 0, the Sa = 0 If line 1 is 45, then proc | (Circle One) 0 45 0. Enter on line [5] | plier | Score Se | ore | Section |
| Date and Location: Sampling Protocol: If line 1 is 0, the Sa = 0 If line 1 is 45, then proc | 0. Enter on line [5] | 1 | | 45 | 5.1 |
| Sampling Protocol: If line 1 is 0, the $S_{g} = 0$ If line 1 is 45, then proof | | | | | |
| if line 1 is 0, the S ₂ = 0 If line 1 is 45, then prod | | | | | |
| If line 1 is 45, then prod | | - // | | | and the second s |
| 2 Waste Characteristics | | | | | ÷ |
| Reactivity and | 0 1 2 3 | 1 | | 3 | 5.2 |
| Incompatibility Toxicity Hazardous Waste Quantity | 0 1 2 3 0 1 2 3 4 5 6 | 7 8 1 | | 9 8 | |
| | | | | | · |
| | Total Waste Characteristics S | core | | 20 | |
| Targets Population Within 4-Mile Radius |) 0 9 12 15 18) 21 24 27 30 | 1 | | 30 | 5.3 |
| Distance to Sensitive Environment | 0 1 2 3 | 2 | | 6 | |
| Land Use | 0 1 2 3 | 1 | | 3 | |
| | | | | | |
| | | | | | ٠ |
| | Total Targets Score | | ; | 9 | |
| Multiply 1 x 2 x 3 | | | 35. | 100 | |
| Divide line 4 by 35,100 a | ind multiply by 100 | S _a = | | <u>!</u> . | |

| | | Direct Contact W | ork Sheet | | | |
|----|---|--------------------------------|-----------------|-------|---------------|-----------------|
| | Rating Factor | Assigned Value (Circle One) | Multi- pliar | Score | Max. Score | Ref. (Dectio |
| | Observed Incident | 0 4: | 1 | 0 | 45 | 3.1 |
| | If line 1 is 45, proceed to | | | | | |
| 2 | Accessibility | 0 1 2 3 | 1 | 3 | 3 | 8 2 |
| 3 | Containment unknown | 0 (15) | 1 | 15 | 15 | 8.3 |
| 1 | Waste Characteristics Toxicity conk | nown 0 1 2 D | 5 | 15 | 15 | 8.4 |
| 3] | Targets Population Within a 1-Mile Radius | 0 1 2 3 4 | 5 4 | 12 | 20 | 8.5 |
| | Distance to a Critical Habitat | <pre>① 1 2 3</pre> | 4 | 0 | 12 | |
| | | | | | | |
| | | | | | | |

| Total Targets Score | | 12 | 32 | |
|---|-------|---------------------|-----------|---|
| 6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5 | | 8100 8100 | 21,600 | |
| Divide line 6 by 21,600 and multiply by 100 | Spc = | <u>37.5</u> 37.5 | NCR OR |) |

•



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

[SEP 2 9 1993

Mr. Jeff Pratt, Manager
Superfund Branch
Kentucky Natural Resources and
Environmental Protection Cabinet
Frankfort Office Park
14 Reilly Road
Frankfort, Kentucky 40601

RE: Simmons Casket Site, Lancaster, KY

Dear Mr. Pratt:

On July 1, 1993, the U.S. Environmental Protection Agency's Emergency Response and Removal Branch (ERRB) conducted a site investigation for potential removal action eligibility under the National Contingency Plan (NCP) at the above mentioned site. Results from the investigation were evaluated using criteria from Section 300.415 of the NCP and current ERRB program guidance.

Our review of analytical data for soil samples collected at this by the EPA On-Scene Coordinator (OSC) indicates the presence of phenol at concentrations up to 22 parts per million (ppm), as well as elevated levels of phthalates and other semi-volatile compounds. While this site is removal eligible based upon NCP criteria, ERRB has determined that the site does not pose an immediate threat and has been assigned a low priority for action. Given our current workload, ERRB does not anticipate taking any further action at this site. If conditions change or additional information becomes available, ERRB will re-evaluate the site as necessary.

Should you have any questions concerning ERRB's determination, please contact Mr. Shane Hitchcock, Chief of Removal Operations Section, at (404)/347-3931.

Siffcafely,

Myroh D. Lair, Chief

Emergency Response and Removal Branch

cc: Narindar Kumar, Site Assessment Section, EPA



Simmons Casket Company

A Division of Gulf+Western Casket Corporation

P.O. BOX 42 INDUSTRY ROAD LANCASTER, KENTUCKY 40444

> EPA Region 4 RCRA Activities 345 Courtland N.E. Atlanta, Ga. 30308



HOSOON SEA

U. S. ENVIRONMENTAL PROTECTION AGENCY REGION IV, ATHENS, GEORGIA

MEMORANDUM

FEB 24 1992

SUBJECT: ESD Document Review: Field Stud

Simmons Casket Company,

Lancaster, Garrard County, Kentu

ESD Project No. 92E-268

FROM:

Bruce Ferguson BCT

Hazardous Waste Section

Environmental Compliance Branch Environmental Services Division

TO:

Al Hanke, Chief

Site Assessment Section Waste Program Branch

Waste Management Division

William R. Bokey, Chief Hendall

Hazardous Waste Section

Environmental Compliance Branch Environmental Services Division

The proposed site inspection plan prepared by Black and Veach waste Science Technology Corp has been reviewed by ESD personnel and the sampling activities outlined in the subject document appear to be commensurate with those of ESD and are acceptable. following comments are offered.

- Section 2.1 Surface Soil Sampling is not included in the Table of Contents.
- The subsurface soil sample collected in the vicinity of the former storage tanks should be taken at a depth which would be below the bottom level of the tanks.

If there are any questions or comments regarding this review, please call me at FTS 250-3628.

cc: Bokey/Hall

C. Helm

JAN 3 0 1992

4WD-WPB

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Mr. Lynn Osborne Allison Abrasives 163 Industry Road Lancaster, Kentucky 40444

RE: Simmons Casket Company
Lancaster, Garrard County, Kentucky
KYD050074889

Dear Mr. Osborne:

The United States Environmental Protection Agency (EPA), pursuant to the authority and requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42, U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499, is planning to conduct an investigation of the above-referenced site. Simmons Casket Company is located in Lancaster, Garrard County, Kentucky. EPA has reason to believe that there may be a release or threat of a release of hazardous substances from the site into the surrounding environment. The purpose of the investigation is to determine the nature and extent of contamination at the site and to determine what, if any, further response action would be appropriate.

As per your telephone conversation with me on January 28, 1992, EPA was granted permission for access to your property beginning on or about February 17, 1992, and continuing through the completion of the investigation on or about February 21, 1992. Activities to be conducted during the investigation may include:

- 1. Inspect, sketch, and photograph the premises;
- 2. Collect surface and subsurface soil samples;
- Collect groundwater and subsurface water samples;
- Collect sediment samples;
- 5. Conduct air monitoring;
- 6. Transportation of equipment onto and about the site as necessary to accomplish the activities above, including trucks and sampling equipment.

The above sampling activity will be conducted by personnel from EPA Region IV's Field Investigation Team (FIT). Mr. Carter Helm of FIT will contact you prior to the actual site visit to make final arrangements and note any changes.

Split samples will be made available if requested. However, you will be required to furnish your own containers as well as your own laboratory analyses.

If you have any questions, please contact me at (404) 347-5065. Your cooperation in this matter is appreciated.

Sincerely,

Loften Carr Environmental Scientist

cc: Carl Millanti, KYDEP Carter Helm, B & V

LC:m:01/28/92x5065 Disk: Carr Doc: alison.acc

CARR DEIHL

ACCESS INFORMATION SHEET

Site Name:

Simmons Casket Co.

fiT Project Manager:

Hubert Wieland

Site Address:

Industry Read

FIT State Coordinator: EPA Contact:

Loften Carr

Lancaston, Garrard Cty, KY

Field Date:

2/17/92

EPA ID #:

KYD 050074889

TDD Number:

5-2011.020

| V 75 * 5 | File information | Verification |
|---|--------------------------------------|---|
| Facility Owner/Operator Address | York Casket Co. | Alleson Abrasives (609-792-3033) |
| Principal Contact - | PO BOX 42 | 163 Industry Rd |
| | Lancaster, K4 40444 | ATTN: Lancaster, KY 40444 |
| | (606) -792-2101 | WABISAS |
| Landowner Address | Simmons Universal 372 Washington St. | JAN 23 1992 |
| Phone No. Principal Contact. (If different from | Wellesley Hills, MA | اللات المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية |
| ebove) | 02181 | ATLANTA, GA |
| | | |
| Date of Information | (984 | 1189 |

Date Access Required 2/17/92 Date Information 1-22-92

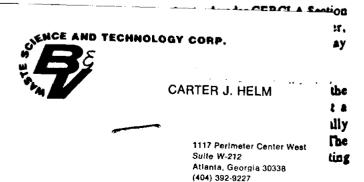
(3 weeks prior to field CALLER: Lafter Carr Partie Called 1/28/92 Access GRANTED PER LYNN Osborne of Access Granted Per Lynn Osborne of

AUTHORITY TO MANAGE IDV

Comments:

EPA views IDW management as an inherent part of 104 (e) (4). Should a site owner refuse to provide or seek a court order, to gain site access for environment in imposing the sanctions authorized under

EPA believes the approach contained in this guidenvironment. The limited scope and purpose of particular site (other than to gather information at unchanged (e.g., returning soil cuttings to the loca SM should seek to obtain the appropriate manager site access agreements.



2 :

MAR 2 5 1992

WD-VP3

Mchammad Mchammadi, Ph.D. GeoSciences, Inc. F.O. Box 40185 Bacon Rouge, Louisiana 70835

RI: 4-RIN-0815-92 Simmons Casket Company Lancaster, Kentucky KYD05007-339

Dear Dr. Mohammadi:

This is in response to your recent visit to U.S. TTA Region IV on March 16 1992, at 3:30am, to review the above prisoned files pursuant to your Freedom of Information Act (FOLA request.

Please find enclosed the bill for the material you dopied during your visit. Fees for compiling the information total \$28.75. Topies of the "Bill for Collection" and "Notice of Fee Schedule and Payment Procedures" are enclosed. Please remit payment in that amount within 30 days of the date of this response to the following address.

U. S. Environmental Protection Agency

P. O. Box 100142

Atlanta, Georgia 30384

RE: 4-RIN-0815-92

To ensure proper credit, your check should reference the above RIN number. Your prompt remittance of the amount indicated will be appreciated.

Parts of the file information were withheld, because they are predecisional and are exempted from disclosure by FOIA Exemption 5. See 5 U.S.C. Section 552(b)(5) and 40 C.F.R. Part 2.118(a)(5). Enclosed is an index of the withheld information, classified by exemption.

Should you wish to appeal this partial denial, you must submit a written appeal to the following address within 30 days of your receipt of this letter.

Freedom of Information Officer (A-101)
United States Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460
4-RIN-0815-92

Your appeal should reference the above RIN number, the date of this determination, my name, title and address.

Should you have any questions regarding the withheld information, please contact Ms. Lou Ann Gross in the Office of Regional Counsel at (404) 347-2541, extension 2282.

Sincerely yours,

/s/ RICHARD D. GREEN ACTING

Donald J. Guinyard Director Waste Management Division

Enclosure

LC:m:03/18/92x5065 Disk: Carr Doc: 0784

CARR DEIHL HANKE LUCIUS GROSS JONES GREEN GUINYARD

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INDEX OF WITHHELD DOCUMENTS RE: 4-RIN-0815-92

Exemption Description of Withheld Documents

Simmons Casket Company (KYD050074889)

Preliminary Hazard Ranking System, HRS score and scoring documentation

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